EXECUTIVE SUMMARY

The project is new investment for manufacturing of High Quality Garment by contract Manufacturing Process (CMP) basis company. The project is issued by the Yangon Region Investment Committee (YRIC) on 16th November 2012 with the Endorsement No YaKaTa (517/2012). 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 CMS Apparel Yangon Co., Ltd 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, CMS Apparel Yangon Co., Ltd 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 manufacturing of garments 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.

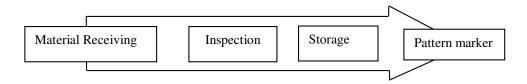
- 1. The Constitution Law, 2008
- 2. The Environmental Conservation Law, 2012
- 3. The Environmental Conservation Law, 2014
- 4. Environmental Impact Assessment Procedure, 2015
- 5. National Environmental Quality (Emission) Guideline 2015
- 6. National Myanmar Environmental Policy 2019
- 7. Foreign Investment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

- 23. Labor Dispute Settlement Law 2012
- 24. The Law Amending the Settlement of Labor Dispute Law 2019
- 25. The Social Security Law 2012
- 26. The Employment and Skill Development 2013
- 27. The Worker's Compensation Act 1923
- 28. The Leave and Holidays Act 1951 Partially Reused in 2014
- 29. The Minimum Wage Law 2013
- 30. Public Health Law 1972
- 31. Prevention and Control of Communicable Disease Law 1995 Amendment 2011
- 32. Occupational Safety and Health Law 2019
- 33. The Law On Standardization
- 34. လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတတ်သော ဝတ္ထုပစ္စည်းများဆိုင်ရာဥပဒေ 2018
- 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

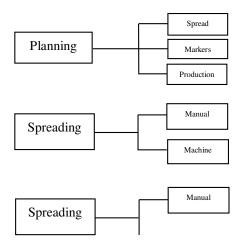
Project description

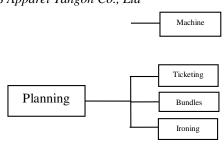
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Type of proposed business	Manufacturing of garments on CMP basis
Type of investment	100% foreign investment
Name of company	CMS Apparel Yangon Co., Ltd
Land lease year	20 years
Total land area	1.24 Acres
Type of land	Industrial Land
Address of proposed project	No. (278/1), Wun Saung Mhu Street and Corner of
	Hlay Thin Atwin Wun U Chain Street, Hlaing Thar Yar
	Township, Yangon Region, Myanmar.
Contact Number	09-5059678

The proposed project is located at Yangon region. The total area of project site is 1.24 acres. 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 496 local employees for first year operation to 10 years operation. The main product of the CMS Apparel Yangon Co., Ltd factory is garments. The utilities for proposed factory include fuel oil for emergency used generator and water for domestic use.

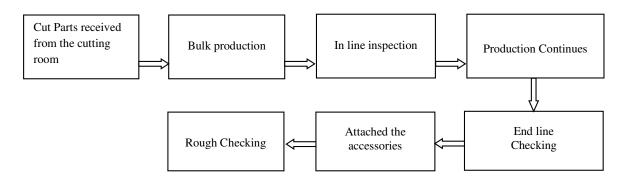


Process Flow for Material Receiving

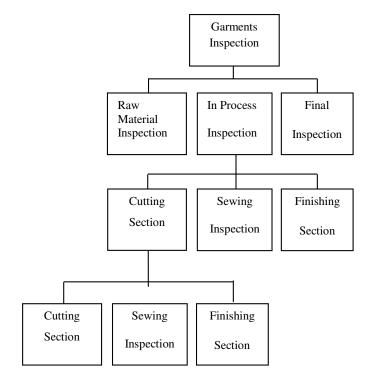




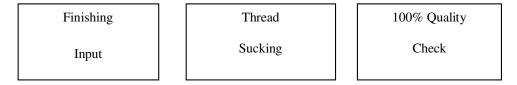
Process Flow for Cutting



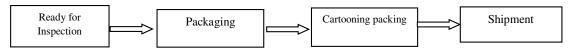
Process Flow for Sewing



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 4, March 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 1 Environmental and Social Risk Assessment

Environmental Project Activities		Sign		nt of mpac		ntial	Impact	
Impact	-	M	D	E	P	SP	Significance	
	Construction Phase; It is not assessed in this phase because of construction is already ompleted during EMP preparation.					ion is already		
Operation Phase	Divir propuration.							
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 Emission of smoke from (rice briquettes) and kitchen Emission from emergency diesel generator 	3	4	2	4	36	Moderate	
Water Pollution	 Sewage disposed of from the toilets Oil spill and grease leaks from transporting 	2	4	2	3	24	Low	

5 Environmental Management Plan Report CMS Apparel Yangon Co., Ltd vehicles and machinery equipment used in operation phase Accidental spillage of oil Soil used by vehicles contamination 2 12 Very low 1 4 1 operating Noise pollution Generating noise from the production machinery Noise from the 3 4 32 1 4 Moderate generating of the emergency generators Fire Hazard Poor electrical installations 3 4 2 27 3 Moderate Waste disposed area Raw materials storage Solid waste Residual pieces of fabric scarps from the production lines Waste from packaging 3 4 1 4 32 Moderate materials Waste from kitchen, dormitory and office Liquid waste Sentic system and

Hazardous waste • Engine oil leaks, spill at diesel storage and during			ı			
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) • Accidental cases cause by operating machines	3	4	1	4	32	Moderate

CMS Apparel Yangon C	Co., Ltd						
	Electricity and						
	emergency diesel						
	generators.						
	• Unloading, mixing,						
	cutting, pressing and						
	packaging activities.						
	Accidental cases of						
	thermic fluid heater						
Social-economic	Job opportunities for						Positive
condition	local people	_	_	-	-	_	impact
Decommissioning	Phase						
Air pollution	 Decommissioning of 						
	buildings and related	3	1	1	4	20	Low
	materials						
Water pollution	Sewage from						
	decommissioning						
	workers	3	1	1	3	15	Low
	Demolition machinery						
	equipment						
Soil	Decommissioning of						
contamination	buildings and related						
	materials	3	1	1	3	15	Low
	• Transportation of						
	demolished materials						
Noise pollution	Decommission activities						
	• Transportation of	3	1	1	3	15	Low
	demolished materials						
Waste disposal	Sewage system						
	Demolished debris such				_	1.0	**
	as bricks concrete	3	1	1	3	12	Very Low
	materials						
Hazardous waste	Used lubricants from						
	decommissioning	3	1	1	3	12	Very Low
	vehicles and machines						,
Occupational	Decommission activities						
health and safety	• Transportation of	3	1	2	3	18	I a
(accidents,	demolished materials	3	1	2	3	18	Low
injuries)	3-1-1-1-1						
Social-economic	Temporary job						Dogitiva
condition	opportunities for local	-	-	-	-	_	Positive
	people						impact

According to the result of analysis, it can be concluded that most of the project activities have low significance on environment, in all phases. Project activities that can produce solid waste and liquid waste are moderate significance. Moreover, project activities that emit dust and GHGs and accidental cases are moderately significant. Fire hazard potential of the proposed project and noise pollution are highly significant. However, this can be prevented or mitigated a by using the following mitigation measures.

Environment Management Program

The proposed project of environmental management plan which have to make the Environmental Management System (EMS). In that plan, it includes not only reducing to the environmental and social-economic impact but also includes the environmental management plan and the monitoring plan. In this EMP to implement the health, safety and occupational for the industry they need to create a team and to must be implemented that. The EMP for CMS Apparel

Yangon Co., Ltd has been prepared to address potential issues based upon discussion with factory management, workers, local community's view, stakeholder consultation and from the site visit of experts. The EMP is additional to and compliments the factory's safety management system. The following environmental issues that require environmental management plans based upon the potential impacts activities by for CMS Apparel Yangon Co., Ltd is as follows:

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

Public Consulting

Under the Environmental Monitoring Plan, the project owner must monitor environmental quality, noise, wastewater quality and safety. Records should be carefully archived and submitted to the relevant authorities for reviewing the results of monitoring air quality measurements, water quality measurements and noise measurements. Public consultation and information disclosure the preparation of Environmental Management Plan (EMP) conducted face to face by the Green EHSS Co.,Ltd, together with CMS Apparel Yangon Co., Ltd, on the background and production process of the project and the production process. Details are provided in appendix.

Conclusion & Recommendation

In conclusion, 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. All the feed backs, desired and needs of local public recorded in public consultation meetings are well addressed and incorporated in formulation of EMP. It has been figured out that the proposed caps 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 would be immense benefit to the local community and national development as well.

This is recommended that

- All appropriate environmental management measure detailed in this report, together with any other environmental management commitments should be implemented throughout the entire life of the factory
- Solid waste and liquid wastes need to dispose according to YCDC rules and regulation
- Workers should be provided proper training and it should be ensured that workers use PPE during factory operation area.
- Daily, monthly and annual action plan shall be formulated based on this EMP and practiced at operation level.
- Keep full records of environmental management activities and present to annual independent third party environment audit.
- Abide environmental policy, laws, rules and instructions of the Republic of the Union of Myanmar.

Finally, the proponent should follow the comments and suggestions made by ECD after reviewing this EMP report. Once concerned authorities approve EMP, effective

implementation of EMP by the project proponent is essential. The proponent should abide environmental policy, laws, rules and instructions of the Union of Myanmar.

အကျဉ်းချုပ်အစီရင်ခံစာ

အဆိုပြုလုပ်ငန်းသည် CMP စနစ်ဖြင့်အဝတ်အထည်ချုပ်လုပ်ခြင်းလုပ်ငန်းအတွက်ရင်းနှီးမြှုပ်နှံ သောကုမ္ပဏီဖြစ်ပါသည်။ရင်းနှီးမြှုပ်နှံမှုလိုင်စင်ကို၂၀၁၂ခုနှစ်၊နိုဝင်ဘာလ၊၁၆ရက်နေ့တွင် (အတည် ပြုမိန့်အမှတ်ရကတ-(၅၁၇/၂၀၁၂)၊ ရန်ကုန်တိုင်းဒေသကြီးရင်းနှီးမြှုပ်နှံမှုကော်မတီမှ ရရှိပြီးဖြစ်ပါ သည်။ လုပ်ငန်းလည်ပတ်ရန်အတွက် မြန်မာနိုင်ငံသယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဝန်ကြီးဌာန(MONREC)၏အတည်ပြုချက်ရယူရန်လိုအပ်ကြောင်းကော်မရှင်မှမှာကြားခဲ့ပါသည်။

ထိုကြောင့် မြန်မာနိုင်ငံပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဥပဒေ ၂၀၁၂ အရ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ် EMP ပြုလုပ်ရန်လိုအပ်ကြောင်း ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၊ ရန်ကုန်တိုင်း ဒေသကြီးမှသဘောထားမှတ်ချက်ရရှိပြီးဖြစ်ပါသည်။ထိုကြောင့်EMPအစီရင်ခံစာရေးဆွဲရန်တတိယ အဖွဲ့အစည်းဖြစ်သော Green Environmental, Health, Safety & Social Consultancy Company Limited မှတာဝန်ယူရေးဆွဲခဲ့ပါသည်။

EMP အစီအစဉ်တွင် CMS Apparel Yangon Co., Ltd ၏ CMP စနစ်ဖြင့်အဝတ်အထည် ချုပ်လုပ်ခြင်းလုပ်ငန်းစီမံကိန်းအတွက် Green Environmental, Health, Safety & Social Consultancy Company Limited မှရေးသားပြုစုထားသောပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီရင်ခံစာ ဖြစ်သည်။ အဆိုပါလေ့လာဆန်းစစ်ခြင်း၏ရည်ရွယ်ချက်များမှာ-

- ✓ သဘာဝပတ်ဝန်းကျင်နှင့်လူမှုပတ်ဝန်းကျင်အပေါ် စီမံကိန်းဆောင်ရွက်ချက်များကြောင့် ထိခိုက် မူများကိုလေ့လာရန်။
- 🗸 ထိုထိခိုက်မှုများကို လျှော့ချနိုင်ရန်လျှော့နည်းစေမည့်နည်းလမ်းများကိုဖော်ပြရန်။
- ✓ စီမံကိန်းအတွက်ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်အစီရင်ခံစာလုပ်ဆောင်ရာတွင်လုံလောက် မှုရှိစေရန်။
- ✓ ဒေသခံများ၏ လူမှုရေးသက်သာချောင်ချိမှုများတိုးမြှင့်ရန်နှင့် ဒေသတွင်းဖွံဖြိုးတိုးတက်မှုများ
 အတွက်မရှိမဖြစ်အရေးပါသောလူမှုစီးပွားတာဝန်ယူမှုအစီအစဉ်အားအကောင်အထည်ဖော် ရန်တို့ဖြစ်ပါသည်။

အဆိုပြုထားသောစီမံကိန်း၏ရည်ရွယ်ချက်သည် CMP စနစ်(ဖြတ်၊လုပ်၊ထုတ်)စနစ်ကိုအသုံးပြု၍ အဝတ်အထည်အမျိုးမျိုးကိုထုတ်လုပ်ပြီး နိုင်ငံခြားသို့ ၁၀၀% တင်ပို့ရန်ဖြစ်သည်။

ဥပဒေနှင့်မူဝါဒဆိုင်ရာအချက်အလက်များ

EMP ရေးဆွဲခြင်း၏ရည်ရွယ်ချက်မှာ နိုင်ငံတော်နှင့်နိုင်ငံတကာမှချမှတ်ထားသောပတ်ဝန်းကျင်ထိန်း သိမ်းရေးအစီအစဉ်များ၊စည်းမျဉ်းစည်းကမ်းများ၊ဥပဒေနှင့်နည်းဥပဒေများကိုလိုက်နာပြီးပတ်ဝန်းကျင် နှင့်လိုက်ရောညီထွေရှိသောထိခိုက်မှုလျှော့ချရေးအစီအစဉ်များပြုလုပ်ရန်ဖြစ်ပါသည်။ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ်အစီရင်ခံစာရေးသားပြုစုသူများ၏ ကျွမ်းကျင်မှုနယ်ပယ်ဆိုင်ရာဖော်ပြချက်များ ကိုရေးသားဖော်ပြထားပါသည်။ ဥပဒေနှင့်နည်းဥပဒေအခန်းတွင် MONREC မှထုတ်ပြန်ထားသည့် ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာလုပ်ထုံးလုပ်နည်းများအမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာအရည် အသွေး(ထုတ်လွှတ်မှု)လမ်းညွှန်ချက်များအပြင်စက်ရုံနှင့်ဆက်စပ်သက်ဆိုင်နေပြီးလိုက်နာရမည့်ဥပဒေနှင့် နည်းဥပဒေများ၊ ဒေသတွင်းသို့မဟုတ်အပြည်ပြည်ဆိုင်ရာသဘာဝပတ်ဝန်းကျင်နှင့် လူမှုပတ်ဝန်းကျင်ဆိုင်ရာမူဝါဒများ၊ ဆက်စပ်နေသည့်နိုင်ငံတကာသဘောတူညီချက်များကို အကျဉ်းချုပ်ရေးသားဖော်ပြ ထားပါသည်။ စက်ရုံအတွင်းလိုက်နာဆောင်ရွက်ရမည့်စည်းမျဉ်းစည်းကမ်းများ၊ လုပ်ငန်းခွင်အန္တရာယ်ကင်း

Environmental Management Plan Report

CMS Apparel Yangon Co., Ltd

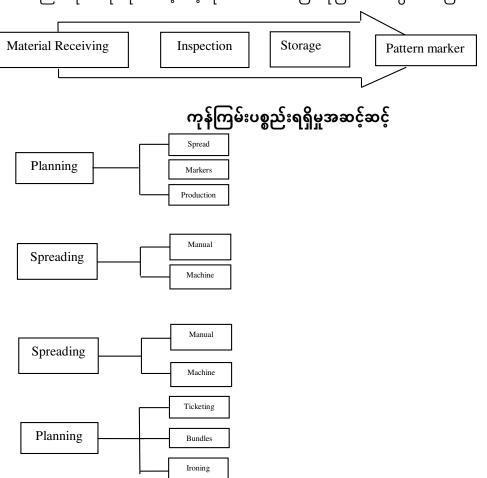
ရှင်းရေးနှင့်ကျန်းမာရေးဆိုင်ရာအခြေခံစည်းမျဉ်းစည်းကမ်းများလည်း ထည့်သွင်းဖော်ပြထားပါသည်။ CMS Apparel Yangon Co., Ltd ၏ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဆိုင်ရာ ကတိကဝတ်များအပြင်ပတ်ဝန်းကျင် ထိခိုက်မှုလျှော့ချရေးမှုဝါဒများကိုလည်းထည့်သွင်းဖော်ပြထားပါသည်။

- 1. The Constitution Law 2008
- 2. The Environmental Conservation Law 2012
- 3. The Environmental Conservation Rule 2014
- 4. Environmental Impact Assessment Procedure 2015
- 5. National Myanmar Quality (Emission) Guideline 2015
- 6. National Myanmar Environmental Policy 2019
- 7. Foreign Investment Law 2012
- 8. Foreign Investment Rule 2013
- 9. Myanmar Investment Rule 2017
- 10. Myanmar Insurance Law 1993
- 11. Payment of Wages Law 2016
- 12. The Payment of Wages Act 1936
- 13. Yangon City Development Committee Law 2018
- 14. The Amended Law for Factories Act 1951(2016)
- 15. The Private Industrial Enterprise Law
- 16. The Export and Import Law 2012
- 17. The Prevention of Hazard from Chemical and Related Substances Law 2013
- 18. The Underground Water Act
- 19. Myanmar Fire Brigade Law 2015
- 20. Fire safety Procedure
- 21. The Electricity Law 2014
- 22. Boiler Law 2015
- 23. Labour Dispute Settlement Law 2012
- 24. The Law Amending the Settlement of Labour Dispute Law 2019
- 25. The Social Security Law 2012
- 26. The Employment and Skill Development 2013
- 27. The Worker's Compensation Act 2013
- 28. The Leave and Holidays Act 1951 partially reused in 2014
- 29. The Minimum Wage Law 2013
- 30. Public Health Law 1972
- 31. Prevention and Control of Communicable Disease Law 1995 Amendment in 2011
- 32. Occupational Safety and Health Law 2019
- 33. The Law on Standardization
- 34. လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတတ်သောသတ္တုပစ္စည်းများဆိုင်ရာဥပဒေ၂၀၁၈
- 35. The Motor Vehicle 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

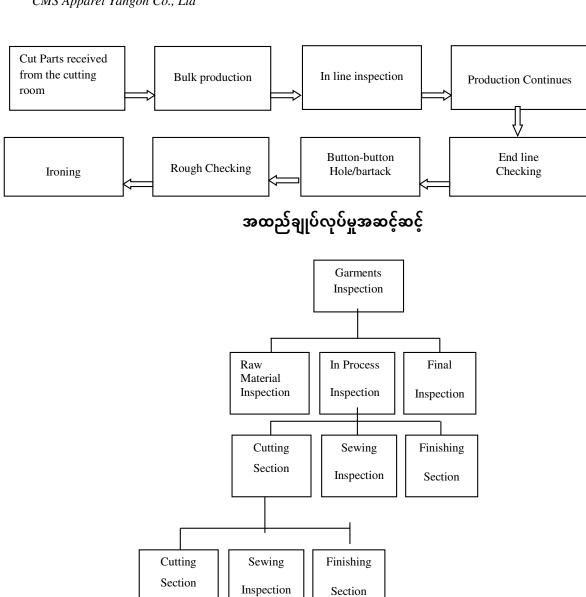
CMS Apparel Yangon Co., Ltd

အဆိုပြုထားသောစီမံကိန်း	အဝတ်အထည်ချုပ်လုပ်ခြင်းလုပ်ငန်း
ရင်းနှီးမြှုပ်နှံမှုပုံစံ	၁၀၀% နိုင်ငံခြားသားရင်းနှီးမြှုပ်နှံမှု
ကုမ္ပဏီအမည်	CMS Apparel Yangon Co., Ltd
အဆိုပြုရင်းနှီးမြှုပ်နှံမှုကာလ	၂၀ နှစ်
စုစုပေါင်းမြေကွက်ဧရိယာ	၁.၂၄ ဧက
မြေနေရာပုံစံ	စက်မှုဇုန်မြေ
စီမံကိန်းတည်နေရာ	အမှတ်-၂၇၈/၁၊ဝန်ဆောင်မှုလမ်းနှင့်လှေသင်းအတွင်းဝန်ဦးချိန်
	လမ်းထောင့်၊ရွှေလင်ပန်းစက်မှုဇုန်၊လှိုင်သာယာမြို့နယ်၊
	ရန်ကုန်တိုင်းဒေသကြီး
ဖုန်းနံပါတ်	၀၉-၅၀၃၉၆၇၈

အဆိုပြုလုပ်ငန်းအတွက်တည်နေရာနှင့်စက်ရုံအတွင်းပါရှိသည့်ရုံးခန်းအဆောင်များ၊ စားသောက်ဆောင်၊ စတိုအခန်း၊ ပြုပြင်ထိန်းသိမ်းရေးအခန်း၊ မီးဖိုချောင် အစရှိသည့်တို့ကိုသီးခြားဖော်ပြထားပါသည်။ ထို့အပြင်ထုတ်လုပ်မှုနည်းလမ်းများ၊လိုအပ်သည့်ကုန်ကြမ်းများ၊နှစ်စဉ်ထွက်ကုန်များနှင့်စက်ပစ္စည်းများ အားဖော်ပြထားပါသည်။ အဆိုပြုလုပ်ငန်းအတွက်လိုအပ်သည့်စွမ်းအင်နှင့် အသုံးပြုသည့်ပမာဏများ ကိုလည်းထည့်သွင်းဖော်ပြထားပါသည်။ ကျန်လုပ်ငန်းသုံးယာဉ်နှင့်ရုံးသုံးပစ္စည်းများကို ပြည်တွင်းမှ ဝယ်ယူအသုံးပြုပါသည်။ နိုင်ငံသား(ပြည်တွင်း)လုပ်သား (၄၉၆)ဦးဖြင့်ဆောင်ရွက်သွားမည်ဖြစ်သည်။ ကုန်ထုတ်လုပ်ခြင်းလုပ်ငန်းမှာ Automatic Machine နှင့်လူစွမ်းအားကိုအသုံးပြုသောလုပ်ငန်းမျိုး ဖြစ်ပါသည်။ ထုတ်လုပ်ပုံအဆင့်ဆင့်ကို အောက်ဖော်ပြပါပုံပြဇေဟား တွင်ဖော်ပြထားပါသည်။

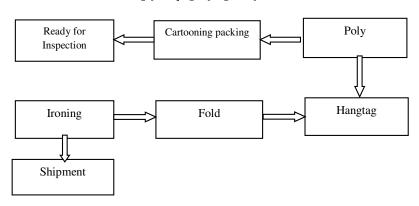


ပိတ်ဖြတ်လုပ်ငန်းအဆင့်ဆင့်





ကုန်ချောဌာနလုပ်ငန်းအဆင့်ဆင့်



အထည်တင်ပို့မှုလုပ်ငန်းအဆင့်ဆင့်

အနီးပတ်ဝန်းကျင်အခြေအနေ

ကန်ဦးစစ်တမ်းကောက်ယူခြင်းနှင့်ဒေသဆိုင်ရာမှ အချက်အလက်များရယူခြင်းသည် အလွန်အရေး ကြီးပါသည်။ ပတ်ဝန်းကျင်အရည်အသွေးတိုင်းတာခြင်းကဲ့သို့သော ကနဦးစစ်တမ်းကောက်ယူခြင်း သည်ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီရင်ခံစာတွင်အရေးပါသော အခန်းအဖြစ်တည်ရှိနေသည်။ ထို့အတွက် စီမံကိန်းသို့ကွင်းဆင်းလေ့လာမှုများကို ၄ရက်မတ်လ ၂၀၂၂ ခုနှစ် တွင်လက်တွေ့ကွင်းဆင်းလေ့လာခဲ့ ပြီးလိုအပ်သည့်လေအရည်အသွေး၊ဆူညံမှု၊အလင်း၊အပူချိန်နှင့်စိုထိုင်းမှုအစရှိသည့်အချက်အလက် များကိုရယူခဲ့ပါသည်။ကွင်းဆင်းလေ့လာထားသည့်အချက်အလက်များကိုသက်ဆိုင်ရာခေါင်းစဉ်အလိုက် အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေးထုတ်လွှတ်မှုလမ်းညွှန်ချက်များနှင့် နှိုင်းယှဉ်၍ဖော်ပြ ထားပါသည်။ ထိုနည်းတူ လျှော့ချရမည့်နည်းလမ်းများကိုလည်း ထည့်သွင်းဖော်ပြထားပါသည်။ စီမံကိန်းတည်ရှိရာ ဒေသရှိရာသီဉတု၊ မိုးရေချိန်၊ လူမှုစီးပွားရေးဆိုင်ရာအချက်အလက်များကိုလည်း ဖော်ပြ ထာပါသည်။

ပတ်ဝန်းကျင်ထိခိုက်မှုနှင့် လျှော့ချရေးအစီအစဉ်

စီမံကိန်းဆောင်ရွက်ချက်များကြောင့် ပတ်ဝန်းကျင်ဆိုင်ရာအရင်းအမြစ်များ၊ ဂေဟဆိုင်ရာအရင်းအမြစ် များ၊ လူစွမ်းအားအရင်းအမြစ်များနှင့်စွန့်ပစ်ပစ္စည်းများစွန့်ပစ်ခြင်း စသည့်ဖြစ်လာနိုင်သည့်ထိခိုက်မှု များကိုခွဲခြားသတ်မှတ်ပြီး ၎င်းတို့၏ရလဒ်များကိုထိခိုက်မှုဆန်းစစ်သည့်နည်းလမ်းများကို အသုံးပြု၍ သတ်မှတ်ခဲ့ပါသည်။ စီမံကိန်းအားထိခိုက်မှုများကိုအပိုင်း၃ပိုင်းခွဲ၍သတ်မှတ်ထားပါသည်။ အမျိုးအစား မှာတည်ဆောက်သည့်ကာလ၊လုပ်ငန်းလည်ပတ်သည့်ကာလနှင့်လုပ်ငန်းဖျက်သိမ်းမည့်ကာလများဖြစ် ပါသည်။ ပတ်ဝန်းကျင်ထိခိုက်မှုလျော့ပါးစေရေးနည်းလမ်းများကိုလည်း ထည့်သွင်းဖော်ပြထားပါသည်။ စီမံကိန်းလည်ပတ်စဉ်ကာလအတွက် ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအစဉ်ကို အကောင်အထည် ဖော်ဆောင်ရွက်ရန်အသုံးစရိတ်ရန်ပုံငွေကိုဖတစ်နှစ်လျှင်အမေရိကန်ဒေါ်လာ၃ဝဝဝခန့်လျာထားပါသည်။

ပတ်ဝန်းကျင်	လုပ်ငန်းလုပ်ဆောင်မှု	ထိခိုက်မှုအဆင့်	လျှော့ချရေးနှင့်				
റ ന്തുത്ന			ထိန်းချုပ်မှု				
တည်ဆောက်ရေးကာလ။ ။ ပတ်ဝန်းကျင်ထိခိုက်မှုလေ့လာချိန်တွင် စက်ရုံတည်ဆောက်ပြီး							
လုပ်ငန်းလည်ပတ်နေချိန်ဖြစ်သော်ကြောင့် ဤကာလကို ထည့်သွင်းမစဉ်းစားပါ။							
လုပ်ငန်းလည်ပတ်ခြင်း	လုပ်ငန်းလည်ပတ်ခြင်းကာလ						
လေထုညစ်ညမ်းမှု	 သယ်ယူပို့ဆောင်ရေးသုံး မော်တော်ယဉ်တို့ကြောင့် ဖုန်မှုန်နှင့်ဖန်လုံအိမ်ဓာတ် ငွေ့ထွက်ခြင်း လုပ်ငန်းခွင်အတွင်းဖုန်မှုန် ထွက်ခြင်း မီးဖိုတို့မှမီးခိုးထွက်ခြင်း အရေးပေါ်သုံးမီးစက်မှ စွန့်ထုတ်အခိုးအငွေ့ထွက်ခြင်း 	အသင့်တင့်	 မီးစက်တို့တွင် မီးခိုးခေါင်းတိုင် တပ်ဆင်ခြင်းဖြင့်အခိုး အငွေ့ကြောင့်ပတ်ဝန်းကျင် ထိခိုက်မှုကိုလျှော့ချခြင်း စက်ရုံအတွင်းနှင့်အနီး အနားတွင်သစ်ပင်ပန်းမံ စိုက်ပျိုးခြင်းဖြင့်ကာဗွန် ထွက်ရှိမှုကိုလျှော့ချပေးခြင်း NOx ထွက်ရှိမှုနည်းသော နည်းပညာမြင့်စက်ပစ္စည်း များသုံးခြင်း 				

CMS Apparel Yangon Co.,	Ltd		
			• စက်ပစ္စည်းများကိုပုံမှန် ပြုပြင်ထိန်းသိမ်းပေးခြင်း
ရေ	မိလ္လာစွန့်ထုတ်ရေ စက်ပစ္စည်းများ၊မော် တော်ယာဉ်များမှဆီယို ဖိတ်ကျခြင်း	အနည်းငယ်	 လက်ရှိရေဆိုးစွန့်ပစ်မှုပုံစံ ဖြစ်သော မိလ္လာစနစ်ကို ပုံမှန်စစ်ဆေးပေးခြင်း မိလ္လာကန်နှင့်မိလ္လာစနစ်ကို လူဦးရေနှင့်ရရန်သင့် တင့်သည့်ပမာဏရှိရန်စီ စဉ်ထားခြင်း ပုံမှန်သန့်ရှင်းရေးပြုလုပ် ပေးခြင်း စက်ပစ္စည်းများကိုပုံမှန် ပြုပြင်ထိန်းသိမ်းပေးခြင်း
မြေဆီလွှာညစ် ညမ်းမှု	မတော်တဆ စက်ပစ္စည်း များ၊မော်တော်ယာဉ်များမှ ဆီယိုဖိတ်ကျခြင်း	အလွန်နည်း	 စက်ပစ္စည်းများကိုပုံမှန် ပြုပြင်ထိန်းသိမ်းပေးခြင်း မတော်တဆမှုမဖြစ်စေရန်ထိ န်းသိမ်းခြင်း
ဆူညံသံ	မီးစက်၊လေမှုတ်စက်နှင့် မော်တော်ယာဉ်အသုံးပြုမှု ကြောင့် ပတ်ဝန်းကျင် ဆူညံမှု	အသင့်တင့်	 ဆူညံသံထွက်သောနေရာ များကို အကာအကွယ် ဖြင့်ထားရှိခြင်း စက်ပစ္စည်းများကိုပုံမှန် ပြုပြင်ပေးခြင်း
မီးဘေးအန္တရာယ်	 ကုန်ကြမ်းသိုလှောင်မှုနှင့် လျှပ်စစ်သုံးစွဲမှုပေါ့လျော့ ခြင်း 	အသင့်တင့်	 ကုန်ကြမ်းများအားသီး သန့်ထားရှိခြင်း လျှပ်စစ်သုံးစွဲမှုများအား စနစ်တကျအသုံးပြု စေခြင်း
စွန့်ပစ်အမှိုက်	 ထုတ်လုပ်ရာတွင် ကျန်ရှိ သော ပိတ်စအပိုင်းအစ များ၊မီးဖိုချောင်နှင့်ရုံးတွင်း စွန်ပစ်ပစ္စည်းများ 	အသင့်တင့်	 စွန့်ပစ်အမှိုက်များအား ပြန်လည်သုံးစွဲရန်နှင့် စွန့်ပစ်ရန်အဖြစ်သတ် မှတ်ပြီးသီးခြားစွန့်ပစ်စေ ခြင်း
စွန့်ပစ်အရည်	 နေအိမ်၊စားသောက် ဆောင်တို့မှ စွန့်ထုတ်ရေ၊ မိလ္လာကန်စနစ် 	အသင့်တင့်	 စွန့်ပစ်အမှိုက်များအား ပြန်လည်သုံးစွဲရန်နှင့် စွန့်ပစ်ရန်အဖြစ်သတ် မှတ်ပြီးသီးခြားစွန့်ပစ်စေ ခြင်း

CMS Apparel Yangon Co.,	Ltd		
အန္တရာယ်ရှိ အမှိုက်	• စက်များမှဆီယိုစိမ့်မှုများ၊ မော်တော်ယာဉ်များ ပြုပြင်ထိန်းသိမ်းမှုမှ ထွက်ရှိသည့်အမှိုက်များ	အလွန်နည်း -	စက်သုံးဆီများအားစနစ် တကျအသုံးပြုစေခြင်း၊ စနစ်တကျသိုလှောင်ခြင်း နှင့်အန္တရာယ်ရှိပစ္စည်များ အားစနစ်တကျထားရှိစေခြင်း
လူမှုစီးပွားဘဝ	• ဒေသခံပြည်သူများ အတွက်အလုပ်အကိုင် အခွင့်အလမ်းများရရှိစေ ခြင်း	အသင့်တင့်	
လုပ်ငန်းပိတ်သိမ်းခြင်း	ကာလ		
လေထုညစ်ညမ်းမှု	အဆောက်အဦများ ဖြိုချမှုများ ဖြိုချပစ္စည်းများသယ်ယူ မှုများ	အနည်းငယ်	 NOx ထွက်ရှိမှုနည်းသော နည်းပညာမြှင့်စက် ပစ္စည်းများသုံးခြင်း၊ စက်ပစ္စည်းများကိုပုံမှန် ထိန်းသိမ်းပေးခြင်း၊
ବେ	• ဖြိုမှုများ	အနည်းငယ်	 ပုံမှန်သန့်ရှင်းရေးပြုလုပ် ပေးခြင်း၊ စက်ပစ္စည်းများကိုပုံမှန် ပြုပြင်ထိန်းသိမ်းပေးခြင်း
မြေဆီလွှာညစ် ညမ်းမှု	 အဆောက်အဦနှင့်ဆက် စပ်ပစ္စည်းများ ဖြိုချပစ္စည်းများသယ်ယူ မှုများ 	အနည်းငယ်	• မတော်တဆမှုမဖြစ်စေရန် ထိန်းသိမ်းခြင်း
အမှိုက်စွန့်ပစ်မှု	အဆောက်အဦများ ဖြိုချပစ္စည်းများသယ်ယူ မှုများ	အလွန်နည်း	စွန့်ပစ်အမှိုက်များအား ပြန်လည်သုံးစွဲရန်နှင့် စွန့်ပစ်ရန်အဖြစ်သတ် မှတ်ပြီးသီးခြားစွန့်ပစ်စေ ခြင်း
အန္တရာယ်ရှိ အမှိုက်	 စက်များမှဆီယိုစိမ့်မှုများ၊ မော်တော်ယာဉ်များ ပြုပြင်ထိန်းသိမ်းမှုမှ ထွက်ရှိသည့်အမှိုက်များ ဖြိုချပစ္စည်းများသယ်ယူ မှုများ 	အလွန်နည်း	စက်သုံးဆီများအားစနစ် တကျအသုံးပြုစေခြင်း၊ စနစ်တကျသိုလှောင်ခြင်း နှင့်အန္တရာယ်ရှိပစ္စည်များ အားစနစ်တကျထားရှိစေ ခြင်း
မတော်တဆ	• အဆောက်အဦများ	အနည်းငယ်	• မတော်တဆမှုမဖြစ်စေရန်
ထိခိုက်မှုများ	ဖြိုချမှုများ		ထိန်းသိမ်းခြင်း

cins ripparet rangen co., i		
	• ဖြိုချပစ္စည်းများသယ်ယူ	
	မှုများ	
လူမှုစီးပွားဘဝ	• ဒေသခံပြည်သူများ	
	အတွက်အလုပ်အကိုင်	

အဆိုပြုလုပ်ငန်း၏ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအတွက် Environmental Management System (EMS) စက်ဝိုင်းဖြင့်အစီအစဉ်တကျပြုလုပ်သွားမည်ဖြစ်ပါသည်။ အစီအစဉ်တွင်စက်ရုံကြောင့်ဖြစ် ပေါ်စေနိုင်သော ပတ်ဝန်းကျင်နှင့်လူမှုဘဝအပေါ် ဆိုးကျိုးသက်ရောက်မှုများကိုလျှော့ချရေး၊ စီမံခန့် ခွဲရေးနှင့်စောင့်ကြပ်ကြည့်ရှုရေးအစရှိသည့် အစီအစဉ်များပါဝင်ပါသည်။ ၎င်းEMPအစီအစဉ်များကို အကောင်အထည်ဖော်ရန်အတွက်စက်ရုံတွင်ကျန်းမာရေး၊ဘေးအန္တရာယ်ကင်းရှင်းရေးနှင့်ပတ်ဝန်းကျင် ဆိုင်ရာအဖွဲ့အစည်းတစ်ခုထားရှိပြီးလျှော့ချရေး၊စီမံခန့်ခွဲရေးနှင့်စောင့်ကြပ်ကြည့်ရှုရေးအစီအစဉ်များ ကိုအကောင်အထည်ဖော်သွားမည်ဖြစ်ပါသည်။အဆိုပါစက်ရုံ၏ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်ကို ရေရှည်ဖွံ့ဖြိုးတိုးတက်ကောင်းမွန်သောပတ်ဝန်းကျင်အဖြစ်အကောင်အထည်ဖော်ဆောင်ရွက်ရန်ဖြစ်ပါ သည်။

ပတ်ဝန်းကျင်ဆိုင်ရာဆိုးကျိုး

သက်ရောက်မှုများကိုလျှော့နည်းစေရန်စီမံခန့်ခွဲမှုအစီအစဉ်များနှင့်စောင့်ကြပ်ကြည့်ရှုရမည့်အစီအစ ဉ်များကိုအောက်ပါအတိုင်းပတ်ဝန်းကျင်ဆိုင်ရာအကြောင်းအရာတစ်ခုချင်းစီအလိုက်

ခွဲခြားမှုပြုလုပ်ထားပါသည်။

- ၁။ ထုတ်လွှတ်အခိုးအငွေ့စီမံခန့်ခွဲမှုစီမံချက်
- ၂။ ဆူညံသံစီမံခန့်ခွဲမှုစီမံချက်
- ၃။ ရေအရည်အသေးစီမံခန့်ခွဲမှုစီမံချက်
- ၄။ အစိုင်အခဲစွန့်ပစ်ပစ္စည်းစီမံခန့်ခွဲမှု
- ၅။ အရေးပေါ်တုန်ပြန်ရေး အစီအစဉ်
- ၆။ စောင့်ကြပ်ကြည့်ရှုရေး အစီအစဉ်
- ၇။ လူမှုအကျိုးတူပူးပေါင်းပါဝင်မှု အစီအစဉ် CSR Plan
- ၈။ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်အတွက် ငွေကြေးလျာထားမှု
- ၉။ မကျေနပ်မှုဖြေရှင်းခြင်းနည်းလမ်း

အဆိုပြုလုပ်ငန်း၏လူထုအကျိူးပြုပူးပေါင်းပါဝင်မှုများအဖြစ်အကျိုးအမြတ်၏ ၂%ကို ကျန်းမာရေး၊ ပညာရေးနှင့်နယ်ပယ်ဖွံဖြိုးတိုးတက်ရေးများတွင် ထည့်ဝင်လှူဒါန်းသွားမည်ဖြစ်ပါသည်။ အဆိုပြု လုပ်ငန်း၏ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုရေးလုပ်ဆောင်ရမည့် လုပ်ငန်းစဉ်များနှင့်ဖြေရှင်းရမည့် နည်းလမ်းများကိုလည်း ထည့်သွင်းဖော်ပြထားပါသည်။

သက်ဆိုင်သူများနှင့်တွေ့ဆုံဆွေးနွေးခြင်း

ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအစဉ်အရစီမံကိန်းပိုင်ရှင်သည် ဝန်းကျင်လေထုအရည်အသွေး၊ ဆူညံသံ၊စွန့်ထုတ်ရေအရည်အသွေးနှင့်ဘေးအန္တရာယ်ကင်းရှင်းရေးတို့ကို စောင့်ကြပ်ကြည့်ရှုရမည်ဖြစ် သည်။ စောင့်ကြပ်ကြည့်ရှု၍ရရှိလာသောလေထုတိုင်းတာရရှိမှုများ၊ရေ အရည်အသွေးတိုင်းတာရရှိမှု များနှင့်ဆူညံသံတိုင်းတာရရှိမှုရလဒ်များကိုပြန်လည်စိစစ်စစ်ဆေးနိုင်ရေးအတွက်မှတ်တမ်းများကိုဖိုင် များဖြင့်သေချာစွာသိမ်းဆည်းထိန်းသိမ်းထားရန်လိုအပ်ပြီးသက်ဆိုင်ရာတာဝန်ရှိဌာနများသို့တင်ပြအစီ ရင်ခံရမည်ဖြစ်ပါသည်။ အများပြည်သူနှင့်တိုင်ပင်ဆွေးနွေးခြင်းနှင့် သတင်းအချက်အလက်များထုတ်

Environmental Management Plan Report

CMS Apparel Yangon Co., Ltd ဖော်တင်ပြခြင်းပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် Environmental Management Plans (EMP) ကို ပြင်ဆင်ရေးဆွဲရာတွင် အကြံပေးအဖွဲ့ Green EHSS သည် CMS Apparel Yangon Co., Ltd စက်ရုံ ရှိတာဝန်ရှိသူများနှင့်အတူ စက်ရုံစီမံကိန်း၏နောက်ခံအကြောင်းအရာနှင့် ကုန်ထုတ်လုပ်သည့်လုပ်ငန်း စဉ်များကို စက်မှုဇုန်ဥက္ကဌနှင့်အနီးရှိ ရပ်ကွက်အုပ်ချုပ်ရေးမှူးတို့နှင့်တွေ့ဆုံကာ Face to Face Meeting ပြုလုပ်ခဲ့ပါသည်။ နောက်ဆက်တွဲတွင်အသေးစိတ်ဖော်ပြထားပါသည်။

နိဂုံးချုပ်

နိဂုံးချုပ်အားဖြင့်ယခုစီမံကိန်းသည်ဆောက်လုပ်ရေးကာလ၊လုပ်ငန်းလည်ပတ်သည့်ကာလနှင့်လုပ်ငန်း ဖျက်သိမ်းသည့် ကာလသုံးခုလုံးတွင်ဒေသခံပြည်သူများကို အလုပ်အကိုင်အခွင့်အလမ်းများဖန်တီး ပေးနိုင်သည်။ ကာလသုံးခုလုံးတွင်ဖြစ်ပေါ်လာနိုင်သောထိခိုက်မှုများကို လျှော့ချနိုင်မည့်နည်းလမ်း များနှင့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်အား အကောင်အထည်ဖော်ခြင်းဖြင့်လျှော့ချနိုင်သည်။ ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှုအစီအစဉ်အား စီမံကိန်း၏ပတ်ဝန်းကျင်ဆိုင်ရာအရည်အသွေးကို စောင့်ကြပ်ကြည့်ရှုရန်မဖြစ်မနေအကောင်အထည်ဖော်ပေးရမည်။စီမံကိန်းအကောင်အထည်ဖော်သူ သည်ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာနမှ ယခုအစီရင်ခံစာအားစစ်ဆေးပြီးနောက် ပြန်လည်ပေးပို့ လာသောသဘောထားမှတ်ချက်နှင့်အကြံပြုချက်များကိုလိုက်နာရမည်။ ထို့ပြင် စီမံကိန်းအကောင် အထည်ဖော်သူသည်မြန်မာနိုင်ငံ၏ပတ်ဝန်းကျင်နှင့်သက်ဆိုင်သောမူဝါဒများ၊ဥပဒေများ၊သတ်မှတ်ချက် များကိုလိုက်နာရန်လိုအပ်ပါသည်။

1. INTRODUCTION

The objective of CMS Apparel Yangon Co., Ltd is to manufacture various kinds of jackets, pants, T-shirts and skirts for 100% export CMP basis and to offer our clients the best required quality garments in the required qualities, at the precise time. Type of investment is foreign investment and export only. Land lease (with buildings) year is 20 years and project site leased in 19th March, 2017.

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 CMS Apparel Yangon Co., Ltd. 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 Project Background

The project is new investment for manufacturing of garments on CMP Basis Company from China. The Yangon Region Investment Committee (YRIC) issues the project on 16th November 2012 with the Endorsement No 517/2012. 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 CMS Apparel Yangon Co., Ltd.

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, CMS Apparel Yangon Co., Ltd commissioned Green Environmental, Health, Safety & Social Consultancy Company Limited (Green EHSS Co.,Ltd) for EMP report study.

1.1.1 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	MR. MIN SOO CHU
Citizenship	American
Passport No	673650222

Table 1.2 Director List

Name of Shareholder	NRC/ Passport No
MR. MIN BONG GI	M64318574

1.1.2 Investment Plan and Salient Features of the Project

The estimated authorized capital investment is 0.909 Million US Dollar (table 1.3). Organization chart of CMS Apparel Yangon Co., Ltd is presented in Figure 1.1.

Table 1.3 Salient Features of the Project

Type of Proposed Business	Manufacturing of Garment
Type of Investment	100 % Foreign Investment
Type of Land	Industrial Land
Type of Land area	1.24 Acres
Land Lease Year	20 Year

CMS Apparel Yangon Co., Ltd

Project Site Leased Date	19 th March, 2017
Address	No. (278/1), Wun Saung Mhu Street and Corner of Hlay Thin Atwin Wun U Chain Street, Shwe Lin Ban Industrial Zone, Hlaing Thar Yar Township, Yangon Region, Myanmar.
Contact Name, Phone	Daw Pyae Phyoe Thu, 09-5059678

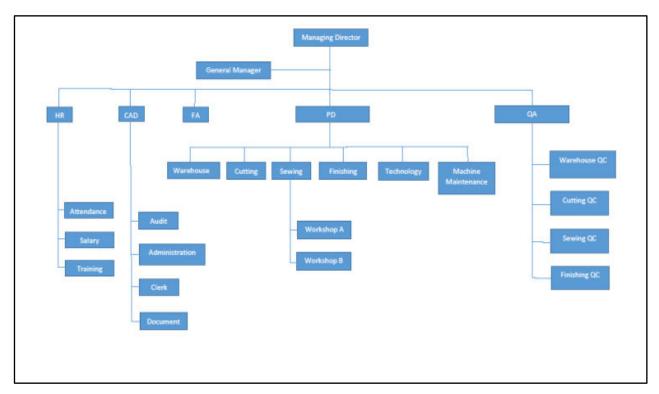


Figure 1-1 Organization chart of CMS Apparel Yangon Co., Ltd Environmental Consultant Profile

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

1.2

No	Name	Designation	Academic and Professional Qualifications	Years of Experience
1	Catherine Soe Soe Aung	Team Leader, Sr. Environmentalist Certified Environmental Professional, Canada Approved Risk Consultant, MOM, Singapore ADB's Consultant Management	Master in Environmental Engineering, National University of Singapore Master in Zoology, YU Bachelor in Zoology, YU	25

2	pparel Yangon Co., Ltd	Donautmant Haad	M.D.D.C(Vangan)	30
2	Dr. May Thin Swe	Department Head Jivitadanan Sangha	M.B.B.S(Yangon)	30
		Hospital		
3	Dr.Theingi Ye Myint	Waste Management	PhD(YU)	5
		and Water Quality	Master in Environmental	
		Specialist	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,	40
	·	Specialist	Diploma 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	Master in Geography, YU	18
		Assessment Specialist	Bachelor in Geography, YU	
		1	Diploma in GIS,	
			Communication Skill for	
			Business, Singapore	
			Polytechnic	
9	Daw Mi Mi Soe	Social Impact	Master in Public	24
		Assessment Specialist	Administration	
			Bachelor in Chemistry	
			Diploma in Computer	
			Science	
			Post-Graduate Diploma In	
			Applied Psychology	

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

able 2-1 List of Myanmar's I Law and Regulation	Law Relating to Environmental Management Description
National Environmental Policy of Myanmar, (Notification No.26/94 dated 5 December 1994)	To achieve harmony and balance between socioeconomic, natural resources and environment through the integration of environmental considerations into the development process enhancing the quality of the 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.
Envi	ronmental 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;

CMS Apparel Yangon Co., Ltd	
Chapter VI Environmental Quality Standards Section 10	 (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. 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; © noise and vibration 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 relia And report through the EIA Report Review Body. Rule 61 The ministry may approve and reply on the EIA report or IEE or with the guidance of the Committee. Sub rule (a) of rule 68 The project proponent has to avoid emit, discharge or dispos materials which can pollute to environment or hazardous was hazardous material prescribed by notification in the place where did or indirectly injure to public. Sub rule (b) of rule 68 The project proponent has to avoid performing to damage to ecosystent the environment generated by said ecosystem. Environmental Impact Assessment Procedure (December 2015) Objectives The project proponent has to be liable for all adverse impacts caus doing or emitting of project owner or contractor, sub-contractor, of employee, representative or consultant who is appointed or hired to pe on behalf of project owner, under sub-paragraph 102. The project relevant government organization, government department of the related persons to resettlement and rehabilitation for liveli until the effected persons to resettlement and rehabilitation for liveli until the effected persons by the project receiving the stable seconomy which is not lower than the status in pre-project, under paragraph 109. The project proponent has to fully implement all commitments of proponent has to fully implement all commitments of procedure and all conditions, under paragraph 103. The project proponent has to be liable and fully & effectively imple all requirements included in EMP. Moreover, the project proponent be liable for contractor and sub-contractor who perform on behim/her have to fully abide by the relevant laws, rules, this procedure and standards under rule 104. The project proponent has to be liable and fully & effectively imple all requirements included in ECC, relevant laws and rules, procedure and standards under rule 104. The project proponent has to inform the completed information, specifying the adverse impacts ca	
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The project proponent has to submit, as soon as possible, the failur his or her responsibility other implementation, ECC or EM dangerous impact caused by this failure or failure should be know the Ministry the project proponent has to submit within 24 hour other than this situation has to submit within 7 days from knowi under paragraph 107. The project proponent has to submit the monitoring report dual prescribed time by Ministry in line with the schedule of EMP, paragraph 108. The project proponent has to prepare the monitoring report in a with the rule 109. The project proponent has to show this monitoring report in palace such as library, hall and website and office of project for purpose to know this report by public within 10 days from the date of the report is submitted to the Ministry. Moreover, has to give the or this report by email or other way which agreed with the asked pet to any asked person or organization, under paragraph 110. The project proponent has to allow inspector to enter and inspector and inspecting time and if it is needed by Ministry has to allow inspectent and inspect in the office and work place to this project in any under paragraph 113.	persons ent and elihood socioler sub- project thas to ehalf of ocedure olement es, this n, after to time, to ti

CMS Apparel Yangon Co., Ltd	
	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
Screening: Section 23	paragraph 117. a) The project proponent shall submit the Project Proposal to the
Screening, Section 25	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 Environme	ntal 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.
Notic	onal Environmental Policy of Myanmar (2019)
National Environmental	Vision
Policy Vision & Mission	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
Section 8	(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.
Section 17	(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, departments or organizations in accord with the contract.
	Foreign Investment Law, 2013
Rule 54	The promoter or investor shall.
	(a) comply with Environmental Protection Law in dealing with environmental protection matters related to the business;

CMS Apparel Yangon Co., Ltd				
	(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				
D1- 202	· · · · · · · · · · · · · · · · · · ·			
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			
Myanmar Insurance Law	project owner has to ensure the insurance for the injured person.			
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 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.			
Ya	ngon 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.			
Section 322	The project proponent is not allowed to make activities that will produce			
550000000000000000000000000000000000000	noise pollution, water pollution, air pollution and soil pollution to impact			
	the environment within the city's boundaries.			
Th	e Amended Law for Factories Act, 1951 (2016)			
Hygiene in Working	Mentions responsibilities of employer and manager regarding waste			
Environment:	disposal, ventilation, extreme temperature, dust and gas generation,			
Section 3	minimum space for each worker, lighting, portable drinking water and			
	toilets for employees.			
Safety in Working	States responsibilities of employer and manager concerning with			
Environment:	machine guarding, personal protective equipment, housekeeping, aisles			
Section 4	and exists, chemical storage and fire protection system to avoid accident.			
	and thists, entities storage and the protection system to avoid accident.			

MS Apparel Yangon Co., Ltd	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 provention of Hezerd fr	com Chemical and Related Substances Law 2013

The prevention of Hazard 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

(c) to paracipate it in need for national security, peace for the criticals 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		
Rule 18	The relevant government department or organization shall obtain the		
	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.

	es can build transmission lines in accordance with existing laws.
1	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
	(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-lasting use of boilers.
Chapter 3	(a) Notify the inspection methods and instructions according to the
4. Within the permission of the	national or international standards for safe operations of boilers in line
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 Registration	5. Anybody who would like to use a boiler in any kind of business should
	be 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

MS Apparel Yangon Co., Ltd	
	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 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. 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
Laban Diamata	25(a) and (b) enacted
Labor Dispute	Settlement Law 28 March 2012 replacing 1929 Version
	eby enacts this law for safeguarding the right of workers or having good
	er and workers and making peaceful workplace or obtaining the rights
rairly, rigntfully and quickly b	by setting the dispute of employer and worker justly. The Social Socrative Low 2012
The Cocial Committee Land	The Social Security Law 2012
I	eted 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
I ahan Diamuta	work of the workers and accident at the establishment
	e Settlement Law 28 March 2012 replacing 1929 Version
	rding the right of workers or having good relationship between employer aceful workplace or obtaining the rights fairly, rightfully and quickly by
	yer and worker justly. It stipulates that employer in which more than 30
	all from the workplace coordinating committee consisting of the
	d the representatives of employer.
Section 23	A party, employer or worker may complain individual dispute relating
Section 23	to 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
	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
	in the second contract the second sec
	such dispute (b)Concluding mutual agreement if the settlement is
	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation
Section 25	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body.
Section 25	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body. The Conciliation Body shall refer the collective dispute which does not
Section 25	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body. The Conciliation Body shall refer the collective dispute which does not reach settlement to the relevant Arbitration Body and inform the
	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body. 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 25 Section 38	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body. 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 No employer shall fail to negotiate and coordinate in respect of the
Section 38	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body. 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 No employer shall fail to negotiate and coordinate in respect of the compliant within the prescribed period without sufficient cause.
	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body. 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 No employer shall fail to negotiate and coordinate in respect of the compliant within the prescribed period without sufficient cause. No employer shall after the conditions of service relating to workers
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Section 38	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body. 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 No employer shall fail to negotiate and coordinate in respect of the compliant within the prescribed period without sufficient cause. 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
Section 38	such dispute (b)Concluding mutual agreement if the settlement is reached in Conciliating under sub-section (a) before the Conciliation Body. 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 No employer shall fail to negotiate and coordinate in respect of the compliant within the prescribed period without sufficient cause. No employer shall after the conditions of service relating to workers concerned in such dispute at the consecutive period before commencing

MS Apparel Yangon Co., Ltd	
Section 46	The project proponent has to not close the work without negotiation, 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 39 shall on conviction be punished with a fine for a minimum of one-lakh kyats.
The l	Employment and Skill Development (2013)
workplace or obtaining the righ	ng the right of workers or having skillful of workers and making peaceful ats fairly, rightfully and quickly by setting the dispute of employer and onduct occupational training to enhance the skills of workers.
Section 14	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.
The Worker's Compensation Act 1923	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 1936	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 regular payday and allows legal action against delayed payment or un-agreeable deduction.
The Leave and Holidays Act 1951 partially revised in 2014	This act has been used as the basic framework for leaves and holidays for workers with minor amendment in 2006 and 2014. This defines the public 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.
The Minimum Wage Law 2013	The minimum wage law passed in March 2013 was replaced the 1949 Minimum Wage Act. The Law provides a framework for minimum wage determination the presidential office establishing a tripartite minimum wage committee shall decide minimum wage with industrial variation based on a survey on living costs of workers possibly every two years. This also stipulates equal payment.
Public Health Law 1972	Chapter 2 Prevention of Public Health
Objectives	To ensure the public health include not only employees but also resident 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 proponent has to allow any inspection, anytime, anywhere if it is needed under the section 5 of said law.
Prevention and Control of Con	mmunicable 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 Health under sub-section (a).
Chapter 4 Environmental Sanitation	For prevention of the outbreak of Communicable Disease and effective control of Communicable Disease when it occurs, the public shall under the supervision and guidance of the Health Officer of the relevant area, undertaken the responsibility of carrying out the following environmental sanitation measures;

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	Indoor, outdoor sanitation or inside the fence outside the fence
	sanitation;
	Well, ponds and drainage sanitation;
	Proper disposal refuse and destruction therof by fire;
	Construction and use of sanitary latrines
	Other necessary environmental sanitation measures
0	ccupational 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
Sub-section (1)	and 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
cas seemen (a)	substances being used at the workplace.
Section 30	The worker shall take reasonable care for the safety and health of
Sub-section (e)	himself/ herself and of other persons who may be affected by his/her
Sub-section (c)	acts or omissions at work.
01:1-4:	The law on Standardization
Objectives	The objectives of this law are as follow as
	To enable to determine Myanmar Standard
	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
Chantan 7	activities in accordance with the national development programme
Chapter 7	The committee may if it is found out that holder of certificate of
Taking action by Committee	certification violate any term or condition contained in the relevant
No 19	recommendation, pass any of the following administrative order.
	Warning
	Suspending the certificate of certification for limited period cancelling
	the certificate of certification
လုပ်ငန်းခွင်သုံးမ	ပေါက်ကွဲစေတတ်သောသတ္တုပစ္စည်းများဆိုင်ရာဥပဒေ၂၀၁၈
ရည်ရွယ်ချက်	လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတတ်သောဝတ္ထုပစ္စည်းများကိုစနစ်တကျပြု
ICOL Y	
	လုပ်ခြင်း၊တင်သွင်းခြင်း၊သယ်ယူခြင်း၊သိုလှောင်ခြင်းနှင့်သုံးစွဲ ခြင်းတို့ပြုနိုင်
	ရန်၊ယမ်းဘီလူးနှင့်ဆက်စပ်သုံးပစ္စည်းများအသုံးပြုသည့်လုပ်ငန်းခွင်ဘေး
	အန္တရာယ်ကင်းရှင်း၍ လုံခြုံမှုရှိစေရန်၊
	ן ווזרו∩ו ה וו ווורר ו סו

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	လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတတ်သောဝတ္တုပစ္စည်းများပြုလုပ်သုံးစွဲမှုများ ကို စနစ်တကျကြီးကြပ်နိုင်ရန်၊
အခန်း ၇ တားမြစ်ချက်များ အမှတ် ၁၈	လိုင်စင်ရရှိသူနှင့် ခွင့်ပြုချက်ရရှိသူ မည်သူမျှစစ်ဆေးရေးအရာရှိချုပ် သို့မဟုတ်စစ်ဆေးရေးအရာရှိ၏စစ်ဆေးခြင်းကိုခံယူရန်ငြင်းပယ်ခြင်းမပြုရ။
အမှတ် ၁၉ ခ	ပုဒ်မ ၈ အရ ကာကွယ်ရေးဦးစီးဌာနကောင်စီအမှုဆောင်အဖွဲ့၏အတည်ပြု ချက်မရရှိဘဲ လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတတ်သော ဝတ္တုပစ္စည်းများကို ဖျက်ဆီးခြင်းမပြုရ။
အမှတ် ၁၉ ဂ	ဤဉပဒေအရ ထုတ်ပြန်ထားသည့်နည်းဉပဒေ၊ စည်းမျဉ်း၊ စည်းကမ်း၊ အမိန့်ကြော်ငြာစာ၊ အမိန့်နှင့်ညွှန်ကြားချက်များနှင့်အညီ ဆောင်ရွက် ရန် ပျက်ကွက်ခြင်းမရှိစေရ၊
	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, noise pollution and life safety
	ryation 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 8	No person shall (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 rivercreek 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.
	Commercial Tax Law 1990 Amended 2014
Chapter 5 Registration and Intimation of Commencement of Enterprise 11 (b) Chapter 6	Any person who commences operation of a goods production enterprise or service enterprise shall furnish letter of intimidation on the commencement of the operations such to the relevant Township Revenue Officer as stipulated by regulations. Any person who has taxable proceed of sale or receipt from service
Monthly payment of Tax and Sending of Three-Monthly Return 12(a)	within a year, shall pay due monthly tax within ten days after the end of the relevant month. Moreover, a three-monthly return shall be furnished to the relevant Township Revenue Officer within one month after the end of relevant three-month.

MS Apparet Tangon Co., Lia	
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.
The Natural Disaster	The objectives of this Law are as follow:
Management Law 2013	a) to implement natural disaster management programmes systematically and
0	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

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.

Observed Air Quality Results

Parameters	Observed value	Guideline value	Unit	Organization	Period
CO_2	326	5000	ppm	NAAQS	8 HRS
CO	275.68	35	ppm	ACGIH	8 HRS
NO ₂	17.93	200	μg/m3	NEQG	8 HRS
SO ₂	25.593	20	μg/m3	NEQG	8 HRS
PM ₁₀	52.98	50	μg/m3	NEQG	8 HRS
PM _{2.5}	26.86	25	μg/m3	NEQG	8 HRS
CH ₄	3515	160	ppm	WHO	8 HRS

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					

Noise level measurement result

No.	Location	Measured Value (dBA)		
1	Generator Room	86		

CMS Apparel Yangon Co., Ltd

	F c c g c , =	
2	Boiler Room	82
3	Cutting Area	70
4	Sewing Area	75
5	Packing Area	68

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	600	19-22
office, sewing)		
Severe prolonged task, very small detail (eg-	900	16-22
fine assembly, hand tailoring)		
Very severe, prolonged task, very small detail	1,300-2,000	13-16
(eg-gem cutting, hosiery mending, gauging		
very small parts)		

Monitoring Measurement of Light (lux)

No.	Location	Measured Value (lux)	Standard
1	Warehouse	280	500
2	Cutting Area	394	1000
3	Sewing Area	725	400
6	Packing Area	275	600

2.3 Commitment of CMS Apparel Yangon Co., Ltd

CMS Apparel Yangon Co., Ltd 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 15° 55' 12.54" N and 96° 4' 0.372" E, No. (278/1), Wun Saung Mhu Street and Corner of Hlay Thin Atwin Wun U Chain Street, Shwe Lin Ban 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 19th March, 2017.



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

3.2 Objectives of Proposed Project

The objective of CMS Apparel Yangon Co., Ltd is to manufacture various kinds of jackets, pants, T-shirts and skirts for 100% export CMP basis and to offer our clients the best required quality garments in the required qualities, at the precise time.

3.2.1 Site Description of Project Site

The total land area is 1.24 acres and build main factory buildings, 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.

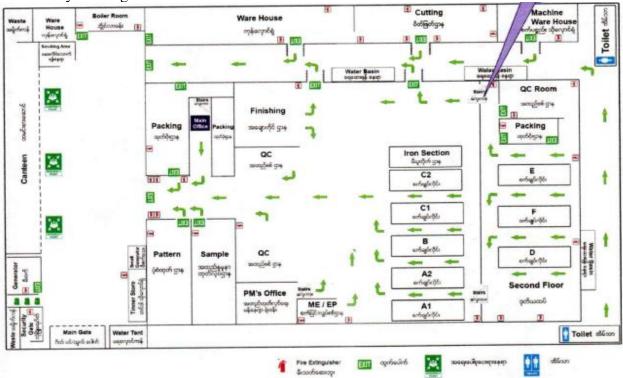


Figure 3-2 Factory Layout Plan

3.3 Salient Features of the Factory

The salient features of the company are mentioned below.

Name of Company : CMS Apparel Yangon Co., Ltd

Environmental Management Plan Report

CMS Apparel Yangon Co., Ltd

Type of Business

Address : No. (278/1), Wun Saung Mhu Street and Corner of Hlay

Thin Atwin Wun U Chain Street,

Shwe Lin Ban Industrial Zone, Hlaing Thar Yar

Township, Yangon Region, Myanmar : Manufacturing of garments on CMP basis

Name of Principal Organization : CMS Apparel Yangon Co., Ltd Type of Investment : 100% Foreign Investment

Total amount of Capital : USD 0.909 Million System of Sales : 100% Export Type of Land : Industrial Zone

Contact Person : Daw Pyae Phyoe Thu Contact Phone : 09-5059678

3.4 Annual Raw Materials Requirement

The main raw materials are fabric, which are imported from China, Japan and Korea. Annually raw materials require for product is 300 rolls/month, 3600 rolls/year and details described in Table (3.1). No chemicals are used for this production.

Table (3.1) Raw Material Requirement for Ipc (Norm)

	Iuni	c (3.1) 1ta	W WILLEY	iai itequi	i cilicit i	or the (1	101 111)					
Sr No	Particulars	AU	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10
	Raw Material (Qty)											
1	Fabric	Yd(000)	2,724	2,802	2,892	3,234	3,234	3,234	3,234	3,234	3,234	3,234
2	Button	Pcs(000)	8,628	8,868	9,168	10,224	10,224	10,224	10,224	10,224	10,224	10,224
3	Zippers	Pcs(000)	2,796	2,880	3,000	3,384	3,384	3,384	3,384	3,384	3,384	3,384
4	Thread	Yd(000)	123,780	127,320	131,160	146,580	146,580	146,580	146,580	146,580	146,580	146,580
5	Labels	Nos(000)	4,308	4,428	4,560	5,088	5,088	5,088	5,088	5,088	5,088	5,088
6	Interlining	Yd(000)	1,140	1,176	1,224	1,380	1,380	1,380	1,380	1,380	1,380	1,380

3.5 Machinery and Equipment

There are 7 lines of operation and lists of machinery and equipment required for the CMS Apparel Yangon Co., Ltd is following in Table 3.3 and Table (3.2).

Table (3.2) Lists of Machinery and Operation Machine to Be Imported

Table	able (3.2) Lists of Machinery and Operation Machine to Be Imported								
Sr No	Particulars	A/U	Qty	Unit Price In US\$	Value in US\$				
1	Single Needle Sewing Machine	Set	580	250	145,000				
2	Over Lock Machine	Set	6	1,550	9,300				
3	Inter Lock Machine	Set	8	1,850	14,800				
4	Two Needle Auto Machine	Set	28	700	19,600				
5	Two Needle Manual Machine	Set	20	600	12,000				
6	Iron Table	Set	25	400	10,000				
7	Single Needle with Thread Trimmer Machine	Set	20	1,000	20,000				
8	Button Hole Attach Machine	Set	4	3,800	15,200				
9	Electric Button Hole Machine	Set	3	8,000	24,000				
10	Zig Zag Machine	Set	4	1,500	6,000				
11	Fire Knife Cutter Machine	Set	1	6,800	6,800				
12	Band Knife Machine	Set	2	3,000	6,000				
13	Electric Steam Iron	Set	50	500	25,000				
14	Label cutter Machine	Set	1	800	800				
15	Thread Cone Wire Machine	Set	2	300	600				
16	Carton Box Packing Machine	Set	1	1,500	1,500				
17	Compressor 10 hp	Set	2	1,500	3,000				
18	Generator (150 KVA)	Set	1	30,000	30,000				
19	Fusing Machine	Set	2	3,050	6,100				
			760		355,700				

Table (3.3) Lists of Machinery and Operation Machine to Be Imported

Sr No	Particulars	A/U	Qty	Unit Price In US\$	Value in US\$
1	Single Needle Machine	No	120	150	18,000
2	Double Machine Detector Machine	No	10	200	2,000
3	Single Needle Feed of arm Machine	No	4	450	1,800
4	Three Needle with Thread Trimmer Machine	No	10	300	3,000
			144		24,800









Figure 3-3 Photos of Sewing Machines

3.6 **Production Activity**

Garment 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;

- Material Receiving
 Cutting
 Sewing
 Ironing

- 5. Inspection
- Finishing
- Packing and Shipping



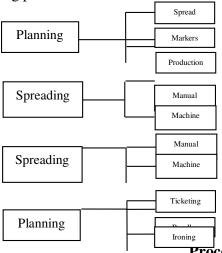
Process Flow of Material Receiving



Figure 3-4 Photo of Materials & Accessories Receiving

Cutting and Ironing

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

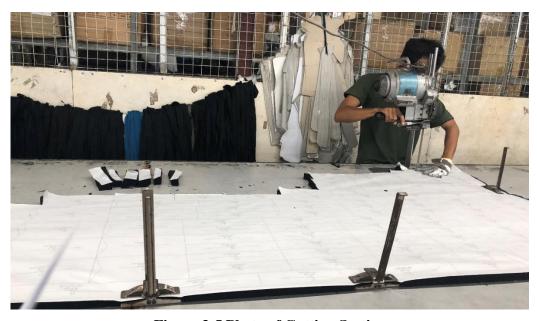
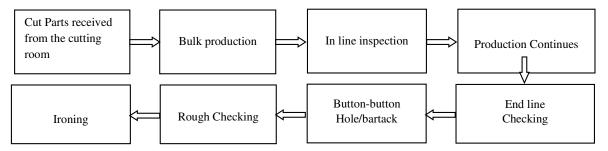


Figure 3-5 Photo of Cutting Section

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

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.



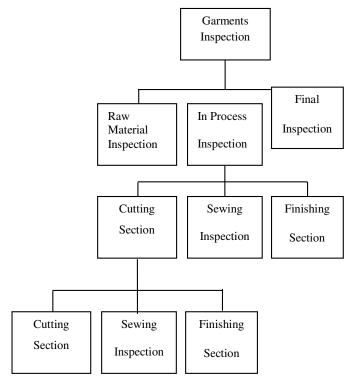
Figure 3-7 Photo of Ironing Section

Environmental Management Plan Report CMS Apparel Yangon Co., Ltd

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

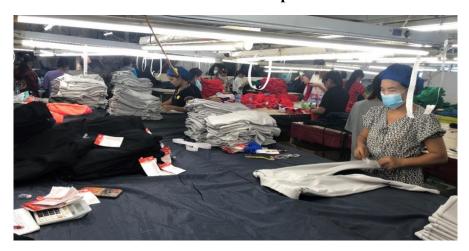


Figure 3-8 Photo of Inspection Section

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

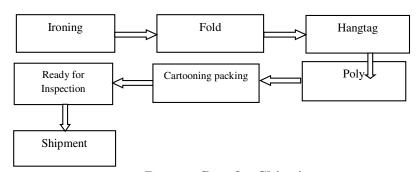
Environmental Management Plan Report CMS Apparel Yangon Co., Ltd



Figure 3-9 Photos of Finishing Products

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



CMS Apparel Yangon Co., Ltd



Figure 3-10 Photos of Packing Section

3.7 Resource Requirement

3.7.1 Human Resource of Requirement

CMS Apparel Yangon Co., Ltd composes of well-trained staffs and local people from nearby Hlaing Thar Yar Township as well as foreign experts. The production is managed by 2 foreign Directors. During the project assessment process 496 employees 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 (3.4) Lists of Local and Foreign Employee

No	Type of Employee	Total
1	Male	104
2	Female	392
	Total Local Employees	496

3.7.2 Working Hour

Normally, there are twenty-six (26) working days per month. Monday to Friday: Working time 7:30 am to 4:00 pm

Lunch Time 12:00 pm to 12:30 pm

Over Time (if required) 4:30 pm to 6:30 pm

Saturday : 7:30 am to 5:15 pm

Sunday : OFF Over Time (if required)

3.8 Products and Production Activity

The products of CMS Apparel Yangon Co., Ltd are padding jackets, T-shirts, pants and skirts etc. Annual production capacity is 900,000 pcs/year.

Table (3.5) Sale Statement Activity

Sr	Doutioulous	T I:4					Ye	ar				
No	Particulars	s Unit	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10
A	CMP System											
	(a) Quality											
1	Shirt	Doz (000	40.0	41.00	42.0 0	46.0 0						
2	Jacket	Doz (000	30.0	31.00	32.0 0	36.0 0						
3	Pant	Doz (000	38.0	39.00	40.0	45.0 0						
4	Vest	Doz	35.0 0	36.00	38.0 0	43.0	43.0	43.0	43.0	43.0 0	43.0	43.0 0

Environmental Management Plan Report CMS Apparel Yangon Co., Ltd

	CMP Export Value in US\$	US\$ 000	1287 .50	1324. 10	1419 .60	1585 .80						
4	Vest	000	50	126.0	00	00	00	00	00	00	00	00
		US\$	122.	126.0	152.	172.	172.	172.	172.	172.	172.	172.
3	Pant	US\$ 000	361. 00	370.5	392. 00	441. 00						
	Jacket	000	00	0	00	00	00	00	00	00	00	00
2	Jacket	US\$	420.	434.0	464.	522.	522.	522.	522.	522.	522.	522.
1	Shirt	000	00	0	60	80	80	80	80	80	80	80
	b)	US\$	384.	393.6	411.	450.	450.	450.	450.	450.	450.	450.
	(c) Value (a x											
	1031	doz	3.30	3.30	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
4	Vest	US\$/	3.50	3.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
3	Pant	US\$/ doz	9.50	9.50	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
2	Jacket	US\$/ doz	14.0	14.00	14.5 0	14.5						
1	Shirt	US\$/ doz	9.60	9.60	9.80	9.80	9.80	9.80	9.80	9.80	9.80	9.80
	(b) CMP Charges	TIGOT										
)										
	MS Apparet Tungon	(000										

 $Table\ (\textbf{3.6})\ Production\ and\ Sale\ Statement\ Activity$

Sr No	Particulars	AU	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10
	TOTAL PRODUCTION	Doz(000)	143.00	147.00	152.00	170.00	170.00	170.00	170.00	170.00	170.00	170.00
	Production / Sale (Qty)	Doz(000)										
1	Shirt		40.00	41.00	42.00	46.00	46.00	46.00	46.00	46.00	46.00	46.00
2	Jacket		30.00	31.00	32.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
3	Pant		38.00	39.00	40.00	45.00	45.00	45.00	45.00	45.00	45.00	45.00
4	Vest		35.00	36.00	38.00	43.00	43.00	43.00	43.00	43.00	43.00	43.00







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 and 300 KVA generator 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 1360 gallons/month and 16320 gallons/year (generator and boiler).

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 prolonges periods.



Figure 3-12 Photo of 315 KVA Transformer



Figure 3-13 Photo of 300 KVA Generator

3.9.2 Water Supply

The production water sources are form on-site tube well. The factory gets water from one tube well 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 three overhead tanks for purified water. Water for firefighting is stored in two ground tanks of 3250 gallons and total 4180 gallons capacity in the compound. Pumps and distribution pipes are installed to supply water for factory use and for water ventilation cooling system. One 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 CMS Apparel Yangon Co., Ltd.

Domestic wastewater generated by maximum amount of 496 persons with assumption rate $49.6 \text{ m}^3/\text{day}$ ($1488 \text{ m}^3/\text{month}$ and $18104 \text{ m}^3/\text{year}$) was calculated based on domestic wastewater generated rate of $0.1 \text{m}^3/\text{person/day}$. This water will be released in operation hour discharge to septic tank or factory drainage.





Figure 3-14 Photos of Water Supply

3.9.3 Boiler

Boiler is installed in the boiler room. Boiler is used for ironing clothes by providing humidity and heat to wipe out the wrinkles and add intentional creases into the clothing. Heat recovery drain has been performed in the factory compound. Boiler stack high is 30 feet and fuel type is diesel and fuel usage (generator and boiler) is about 46 gallons/day, 1360 gallons/month and 16320 gallons/year. Particle reduction device does not exists.



Figure 3-15 Photo of Boiler





Figure 3-16 Photos of Diesel Fuel Storage for Boiler and Generator

3.9.4 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 3-17 Photos of External & Internal Drainage

3.9.5 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 496 persons during operation. Solid waste generated from maximum amount of operations and office staffs with assumption of waste generation rate at 193.44 kg/day was calculated based on solid waste generation rate of 0.39 kg/person/day1.



Figure 3-18 Photo of Bin

3.9.6 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 3-19 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.

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

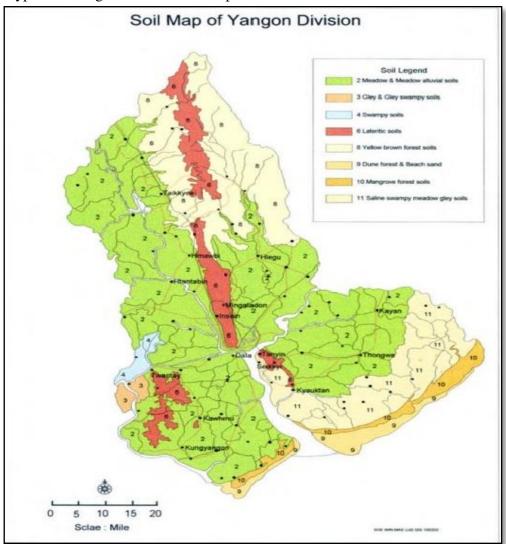


Figure 4-1 Soil Map of Yangon Region

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 Hlaing River which is a little bit far from the project vicinity and Hlaing River is 834.56 m North East direction of the project site. The nearest protected areas is Hlaw Gar Park which is located 14.39 km (8.94 mile) North East of the factory.

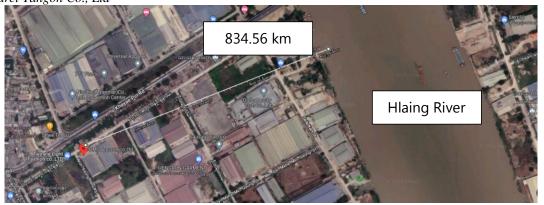


Figure 4-2 Project Location and the Nearest Creeks

4.1.4 Land Use

The total area is 1.24 acres. CMS Apparel Yangon Co., Ltd is situated in Shwe Lin Ban 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:

Beside: Myanmar Toppy Garment 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 4, March 2022, 8-hours of working period air pollutants level, which include dust (PM10 and PM2.5) 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 international ambient air quality standard (NAAQS, ACGIH) guidelines. The measurement location point is situated at latitude 16° 55' 12.54" N and longitude 96° 04' 0.372" E.

It was observed that the air quality of CO₂ and SO₂ concentration level are within the limit of NEQ (emission) guideline but particulate matter (PM2.5) and gases level of Nitrogen Dioxide (NO₂) are also within the National Environmental Quality (Emission) Guideline. CO, PM10 and Methane CH₄ are above the guideline because this is mainly due to the transportation of raw materials and products in the factory and release of trucks and emissions from leaking air conditioners.

Table 4.1 Observed Air Quality Results

Parameters	Observed value	Guideline value	Unit	Organization	Period
CO_2	326	5000	ppm	NAAQS	8 HRS
CO	275.68	35	ppm	ACGIH	8 HRS
NO ₂	17.93	200	μg/m3	NEQG	8 HRS
SO ₂	25.593	20	μg/m3	NEQG	8 HRS
PM ₁₀	52.98	50	μg/m3	NEQG	8 HRS
PM _{2.5}	26.86	25	μg/m3	NEQG	8 HRS
CH ₄	3515	160	ppm	WHO	8 HRS

NAAQS = National Environmental Quality (Emission) Guideline

NEQG = National Ambient Air Quality Standards were developed by the U.S EPA

ACGIH = the American Council of Governmental Industrial Hygienists Recommends

4.2.2 Noise

The Noise level was measured by using Digital Sound Level Meter (5T436355) for working hours on 18, October 2021. The main sources of noise during the operation period are from maintenance of engineering department and from the production activities and functions.

CMS Apparel Yangon Co., Ltd

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.

Noise Level Standard

Receptor	One H	our 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 4.2 Noise level measurement result

No.	Location	Measured Value (dBA)
1	Generator Room	86
2	Boiler Room	82
3	Cutting Area	70
4	Sewing Area	75
5	Packing Area	68

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. CMS Apparel Yangon Co., Ltd 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 4.3 Recommended Illumination and Limiting Glare Index based on IES code 1968

Tuble the Recommended manimum on and Ellin	-	asea on instance
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	600	19-22
office, sewing)		
Severe prolonged task, very small detail (eg-	900	16-22
fine assembly, hand tailoring)		
Very severe, prolonged task, very small detail	1,300-2,000	13-16
(eg-gem cutting, hosiery mending, gauging		
very small parts)		

Table 4.4 Monitoring Measurement of Light (lux)

No.	Location	Measured Value (lux)	Standard
1	Warehouse	280	500
2	Cutting Area	394	1000
3	Sewing Area	725	400
6	Packing Area	275	600

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.

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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.

CMS Apparel Yangon Co., Ltd develops a comprehensive waste control and management system for production process CMS Apparel Yangon Co., Ltd 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 on-site 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 4.5 Existing Condition of Ecological Resources

Ecological Resources	Existing condition
Fisheries, aquatic biology	The nearest river is Hlaing River. Fresh water fish species
	are residing in the River.
Wildlife	Non existence
Forests	Non existence
Rare or endangered species	Non existence
Protect area	The nearest protected areas is Hlaw Gar Park which is
	located about 4 mile north of the factory.
Coastal resources	A few mangrove species observed at the river banks of
	Hlaing.

4.5 Socio-Economic Environment

Yangon 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.

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

<u>Table 5.1 Evaluat</u> Environmental		- 0			tal 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		Medium T		Long Tern		Permane		
Effluent	Non-toxic	'1	Low toxici		Toxic poll		High tox		
	pollutant, ea		pollutant (e.g.,	production with chem		pollutant	•	
	biodegradat (ex; treated	ne	treated pro waters)	auction	content an				
	domestic wa	aterc	waters)		treatment.	a poor			
	clean draina				ticatificit.				
	effluents)	.sc							
Gaseous	Gas polluta	nt (PM	Gas <1 kg	of	Gas 1kg to	300kg of	Gas >300) kg of	
emissions	NO _X , SO ₂ ,	(1,	pollutant.	Flaring	pollutant	200118 01	pollutant		
(abnormal	$SO_3,CO_2)$		rate increa	se of	Flaring rate	increase:	Increase	of	
situation)	,		100000 m ³	per day)	100000 m^3	/d to 3M	flaring rate >3M		
						m^3/d		m ³ /d	
Waste	Easily		Inert waste	es	Industrial		Industrial toxic		
Production	recyclable v	wastes			low toxicit	y,	wastes an		
					available l	ocal	required		
					treatment		treatment.		
Hazardous	Low Quant	ity and	Average q		Important		Very important		
wastes	Low effect		spilled and	l/or low	andimpac		quantity	and	
discharge	environmen	ΙŢ	effect on environme	nt	environme	nt	impact of environn		
			(pollution				(soils and		
			and surface				table pol		
			waters)	C			table por	iution)	
2 12									
Soil	Low effect		Moderate of		Major dan		Immedia		
pollution	environmen		environme	nt	land requir	nng	planning	and	
	remediation	1			mitigation		action re	quired.	
	required.				remediatio	n			
Land Use	Use Affective use of		Somewhat		Only benef		Benefit t	o no	
	lands		to the loca	ls	project own	ner and	party		
					no benefit t	o locals			
Use of natural	Use of rene	wable	Use of reso		Significant		Significa		
resources:	resources, t	ise of	with sustain		of a high a		of critical assets		
Water, energy,	recyclable		practices L				and resor	urces	
raw materials	resources.		significant	effect of					
			a critical as	set					

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Impacts on biodiversity	Very small population of non-significant fauna and flora may be affected.	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

Probability of Occurrence (O) b.

- 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

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**

	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 $(S \times O \times C)$	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

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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, try to improve	Require additional risk control measures and regular review.
33-48	High	Significant impact, real necessity to improve	Must provide appropriate risk control measures and continuous monitoring the effectiveness of improvement.
49-64	Very High	Unsustainable situation	Require alternative for the 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		Significant of Potential Impacts			Impact	
Impact	1 Toject Activities	M	D	E	P	SP	Significance
	e; It is not assessed in this p	hase	beca	ause	of c	onstru	iction is already
completed during E	MP preparation.						
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 Emission of smoke from (rice briquettes) and kitchen 	3	4	2	4	36	Moderate

CMS Apparel Yangon C						1	T
	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 	2	4	2	3	24	Low
	operation phase						
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 installations Waste disposed area Raw 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 	3	4	1	4	32	Moderate
Liquid waste	 Septic system and sewage Domestic liquid waste disposal from office, kitchen and dormitory 	2	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)	 Accidental cases cause by operating machines Electricity and emergency diesel generators. Unloading, mixing, cutting, pressing and packaging activities. Accidental cases of thermic fluid heater 	3	4	1	4	32	Moderate

Social-economic Job opportunities for Positive condition local people impact **Decommissioning Phase** Air pollution Decommissioning of buildings and related 3 1 1 4 20 Low materials Water pollution Sewage from decommissioning 3 3 workers 1 1 15 Low Demolition machinery equipment Decommissioning of Soil contamination buildings and related materials 3 1 1 3 15 Low Transportation of demolished materials Noise pollution Decommission activities 3 1 1 3 15 Low Transportation of demolished materials Waste disposal Sewage system Demolished debris such 3 1 1 3 12 Very Low as bricks concrete materials Hazardous waste Used lubricants from 3 decommissioning 1 1 3 12 Very Low vehicles and machines Occupational Decommission health and safety activities 3 2 1 3 18 Low (accidents, Transportation of injuries) demolished materials Social-economic Temporary job Positive condition opportunities for local

people

impact

6. STAKEHOLDER ENGAGEMENT AND INFORMATION DISCLOSURE

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.

CMS Apparel Yangon Co., Ltd provides an opportunity to all the stakeholders and communities in the surrounding area to raise issues and concerns pertaining to the factory. The engagement activities using varied techniques are as follows:

- a) Neighboring community/stakeholders can directly inform their township/ward to the CMS Apparel Yangon Co., Ltd Office.
- b) They can give their suggestions to the factory through the township/ward administration office or industrial zone office.

The using techniques for aforementioned description, Green EHSS have organized meetings CMS Apparel Yangon Co., Ltd. The objectives of the meeting were to collect up-to-date and precise information on the project activities. The outcome of the meeting will help in the assessment of the anticipated impacts.

CMS Apparel Yangon Co., Ltd is situated in Yangon Industrial Zone. Green EHSS has conducted stakeholder engagement with local residents near Yangon Industrial Zone to inform 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.

6.1 Engagement Techniques

CMS Apparel Yangon Co., Ltd has implemented a comprehensive range of engagement activities using varied techniques to ensure that the project effectively involves stakeholders. The using techniques for aforementioned discussions, meetings and survey are showed in following table.

Table 6.1 Engagement Methods and Techniques

Engagement Technique	Description
Company Address	CMS Apparel Yangon Co., Ltd provides company
Factory Address	location and factory location in Yangon.
	This is relevant in easily way of accessibility for all
	kinds of stakeholders.
Hot Line Number	CMS Apparel Yangon Co., Ltd operates a hot line
	number which is available during business hours.
	Phone 09-5059678
Pamphlet	CMS Apparel Yangon Co., Ltd will produce pamphlet
	available in community meetings for general
	information related with plant activities, environmental
	management, safety, community development and
	public involvement.
Booklet	CMS Apparel Yangon Co., Ltd will produce booklets
	to provide the community with project related
	activities including machine used, product value and
	their services.
	Booklets are available in community meetings for the
	provision of information with pictures and
	photographs.
Face to Face Meeting	CMS Apparel Yangon Co., Ltd does not engage
	directly with a range of stakeholders as required. In
	particular, CMS Apparel Yangon Co., Ltd has an
	ongoing engagement with local authority persons,
	and community organizations.
Questionnaires and Surveys	CMS Apparel Yangon Co., Ltd house hold survey in
	the vicinity of the factory location to evaluate the

11 0	
	effectiveness of engagement mechanisms and gain an understanding of community perception interests and issues.
Public Meeting	CMS Apparel Yangon Co., Ltd will conduct public meeting to generate more in depth information around issues and concerns raised by stakeholders. These are giving stakeholders on opportunity to directly obtain information and ask questions concerned with the project

6.2 Responses and Additional Comments by Respondent

Consultation with communities affected by the project as well as the focus groups with local government and ward leaders highlighted the most important issues. Several of these issues directly related to the plant activities and facilities during operation.

The results of public consultation and socio-economic survey show that the respondents were positive on the project for the operation of CMS Apparel Yangon Co., Ltd.

Community level consultation revealed that there were no complain from the surrounding area on CMS Apparel Yangon Co., Ltd.

The consultation and household survey revealed that unemployment and the poverty that accompanies. It is the key concern amongst communities in the vicinity of the project site. Over 60% of respondents have revealed that priority for employment opportunity is to be given to local residents. They also advised to maintain the environment and to support the community and social development process.

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

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.

Planning - An organization first identifies environmental aspects of its operations. 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 (egreduce 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.

Review - 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

CMS Apparel Yangon Co., Ltd) describe its environmental policy as follows:

CMS Apparel Yangon Co., Ltd shall be responsible for the protection as well as perseveration of environment in and around the area of the project site.;

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- CMS Apparel Yangon Co., Ltd shall be able to control pollution of air, water and not to cause environment degradation and
- CMS Apparel Yangon Co., Ltd) will comply with any applicable environmental protection laws and regulations of the Republic of the Union of Myanmar.

7.3 Health Policy

CMS Apparel Yangon Co., Ltd always comply with all health and safety legislation.

CMS Apparel Yangon Co., Ltd will establish and implement the Occupational, Health and Safety Management.

CMS Apparel Yangon Co., Ltd help the workers by providing them with a workplace health services and medical care and workplace safety.

CMS Apparel Yangon Co., Ltd 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. CMS Apparel Yangon Co., Ltd 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

CMS Apparel Yangon Co., Ltd 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:

- 1) Daw Hnin Hnin Aye (HR)
- 2) U Aung Min Naing (EP Supervisor)
- 3) U Kyaw Thet Paing Oo (Pattern Supervisor)
- 4) U Kyi Lwin (Cutting Supervisor)
- 5) Daw Aye Thandar Win (Finishing Supervisor)

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 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
First Aiders	 the assembly Area. 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.

II. Environmental Management Team (EMT)

EMT Shall comprise:

- 1) Daw Pyae Phyo Thu (General Manager)
- 2) Daw Hnin Hnin Aye (Production manager)
- 3) Daw Hnin Hnin Aye (HR)
- 4) Daw Win Thiri Ko Ko (HR & Admin)
- 5) Daw Ywat Nu Aye (Accountant)
- 6) U Tun Tun Naing (EP Super)
- 7) U Kyaw Zay Ya (EP)

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:

- 1) Daw Pyae Phyo Thu (General Manager)
- 2) Daw Hnin Hnin Aye (Production manager)
- 3) Daw Hnin Hnin Aye (HR)
- 4) Daw Win Thiri Ko Ko (HR & Admin)
- 5) Daw Ywat Nu Aye (Accountant)
- 6) U Tun Tun Naing (EP Super)
- 7) U Kyaw Zay Ya (EP)

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 CMS Apparel Yangon Co., Ltd.

7.5 Environmental Impact and Mitigation Measures

After evaluating the environment impacts of CMS Apparel Yangon Co., Ltd, 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 7.1.

Table 7.1 Environmental Impact and Mitigation Measures (Air Pollution) during Operation Phase

Environmental Impact	Mitigation Measures
<u>I</u>	<u>Dust</u>

Dust from loading and unloading raw Installation of sufficient exhaust fan materials ventilation units. Regular change the ventilation filters. Heating, ventilation and air condition systems must be cleaned and maintained regularly. Dust particles generated from fabrics and More comprehensive cleaning should be threads from cutting and sewing to carried out as often as necessary. This packing operations. 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 from floor cleaning and Spraying water on the floor before sweeping housekeeping in factory operation 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. **Exhaust Emission (Greenhouse Gas)** Use of vehicles having efficient engines Vehicle Movement and exhaust system. **Implementing** vehicle regular maintenance and repair program. Installation of filters for generator and Air Emission generated from diesel • generators remove any PM Proper ventilation of equipment and Air emission generated from diesel generators machines. Use of masking agents and efficient ventilation system in factory. Putting indoor potted plants for air Using air conditioner in office building refreshment of office. Cooking activities from dormitory Increasing roadside plantations make localized air pollution reduced due to the blocking effect of foliage and through 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 7.2

Table 7.2 Environmental Impact and Mitigation Measures (Noise) during Operation

Table 7.2 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 7.3.

Table 7.3 Environmental Impact and Mitigation Measures (Water) during Operation Phase

Table 7.5 Environmental Impact and Mitigation Measures (Water) during Operation Phase			
Environmental Impacts	Mitigation Measures		
Ground	d 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	
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.

CMS Apparel Yangon Co., Ltd 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. CMS Apparel Yangon Co., Ltd 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. 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.

(a) Receiving Process
 (b) Marking
 (c) Cutting
 Packing Waste
 Paper Waste
 Linen Cuts

(d) Sewing - Linen Cuts, Thread Cuts
(e) Button Stitching - Metal Waste, Thread Cuts

(f) Tag and Code - Paper Waste, Thread Cuts, Packing Material

(g) Needle check - Metal Waste

(h) Packing - Packing 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

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waste management is to describe how factory may properly manage hazardous wastes and nonhazardous waste. Potential environmental impact

and mitigation measures for solid waste management are shown in table 7.4

Table 7.4 Environmental Impact and Mitigation Measures (Solid Waste) during

Operation Phase Environmental Impacts	Mitigation Measures
	dous Waste
• Textile waste	• Cleaning continuous and regularly.
 Pieces from cutting. 	 Provision of adequate containers to
Packing materials.	avoid loss to the floor.
-	• Apply 3Rs management (Reduce, Reuse and Recycle)
	 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 paper scraps,	• Reuse waste if applicable.
used copier cartridges, paper boxes and	 Waste should be disposed in
plastic bags.	bins and segregated by types
• Domestic wastes such as food waste,	of waste.
plastic bags, plastic water bottles, etc.	• Sufficient waste bins will be provided within the factory premises.
Waste disposal	Wastes are removed from on-
waste unspession	site at regular intervals to
	prevent release to the
	environment.
	 Final disposal of Non-hazardous waste
	to YCDC or Shwe Pyi Thar industrial
	estate allocated dumping sites.
Hazardo	us-Waste
• Bleaching materials, solvent based paint,	• Factory must determine the types and
flammable solvents.	amount of hazardous wastes resulting
• Small amount of machinery maintenance	from production and business activities.
materials such as oily rags, used oil filters	• Hazardous waste must be contained to
and used oils as well as spill cleanup	prevent it from blowing away and from
materials	leaching into surface or groundwater.
Electric tubes used cartridges	Keeping hazardous waste container with
Waste of electric and electronic	clearly marked Hazardous Waste.
equipment and etc.	Hazardous waste should be stored in
. 1L	accioned areas with secondary

assigned

with

containment (a container or physical

areas

secondary

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	structure that surrounds the primary container and serves to hold any liquids that may leak from the primary container). • Assigned hazardous waste storage areas should be located indoors, if possible (outdoor areas should be completely enclosed such as a shed). • 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 avoid personal injury, prevent spills and release and to make sure these 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 hazardous	 Factory make take steps to reduce hazardous waste (by using non-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. CMS Apparel Yangon Co., Ltd will keep the enterprise premises green by planting trees and flowers. Potential environmental management is shown in Table 7.5.

Table 7.5 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 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 	

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	 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 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 Failure	AwarenessCleaning and housekeepingMaintenance

Social Environmental Impact and Mitigation Measures
Potential environmental impact and mitigation measures for social environmental management are shown in Table 7.6.

Table 7.6 Environmental Impact and Mitigation Measures (Social Environment) during **Operation Phase**

Environmental Impacts	Mitigation Measures
Populati	on Influx
• Increase pressure on existing social infrastructures and services including health, food, shelter, water and recreational facilities.	• Providing own health care facilities such

	Provision of ferry service for workers from remote area.
Beneficia	al Impacts
Employment opportunity to local people	 Maximize the use of local labour Maximize public participation about project related activities

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.

Occupational Health and Safety Management

Primary OHS issues related to CMS Apparel Yangon Co., Ltd 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.

CMS Apparel Yangon Co., Ltd has developed occupational health and safety plan to promote a safe working environment at the factory.

	Table 7.7 Occupational Health and Safety Plan				
Enviro	Environmental Impacts Mitigation Measures				
	<u>Physical Injuries</u>				
• Acc	idents	•	Keep stairs, aisles and exits clear. Safety signboards. Provide adequate passageways for efficient and safe movement of materials. The first aid kits and emergency medical boxes are supplied 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.		
• Ove	erweight lifting	•	Using necessary lifting and carrying aid and machinery.		
• Cut	fingers in the cutting room	•	Using metal hand gloves for cutting machine operators		
	onomic injury from prolong standing itting	•	Providing necessary seats at appropriate places.		
	Li	ght			
	ivities of the workers in the operation or are dependent on the good quality t.	•	Provide good quality light source in the workplace. Lights are positioned in the correct place. Switch of the light when not in use. Adequate lighting near any potential hazards such as steps, ramps, etc and outside the factory for security at night.		
	<u>Tempe</u>	ratı	<u>ire</u>		
• Hea	t 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.		

	Health				
DrinkingSanitationRisks infectious AIDS/HIV	disease	such	as	 Providing purified drinking water for all workers. The toilets are provided with enough water and deodorants. Prevention of spreading out Training of workers. 	
	Working conditions				
Traffic safetySafety measure				 Improve the driving skills and requiring licensing of drivers. 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 Photo of Factory Clinic

7.9 Emergency Response Plan

CMS Apparel Yangon Co., Ltd has planned, designed and constructed with fixed firefighting installations systematically. CMS Apparel Yangon Co., Ltd 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.

CMS Apparel Yangon Co., Ltd installs the Firefighting System and Equipment as follows:

Firefighting System and Equipment

- 1) Water for firefighting is stored in ground tank of 3250 gallons capacity in the compound.
- 2) Sand for firefighting is also stored in a concrete tank.
- 3) Installation 55 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.
- B) Display access to emergency services.
- 9) "NO SMOKING" signs shall be conspicuously displayed at strategic locations in the factory.

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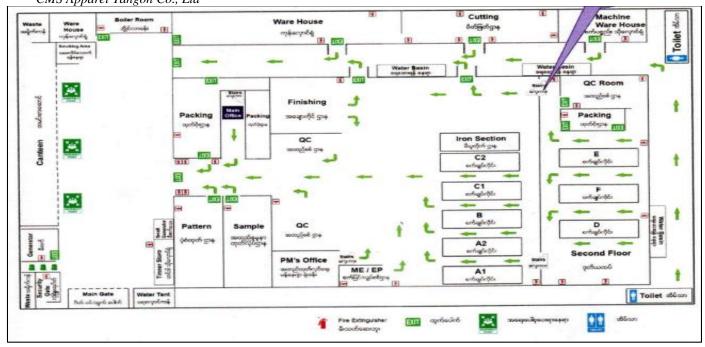


Figure 7-2 Photos of Emergency Route Plan



Figure 7.3 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:

- 1) Daw Hnin Hnin Aye (HR)
- 2) U Aung Min Naing (EP Supervisor)
- 3) U Kyaw Thet Paing Oo (Pattern Supervisor)
- 4) U Kyi Lwin (Cutting Supervisor)
- 5) Daw Aye Thandar Win (Finishing Supervisor)

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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

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 good on first aid to any injured during.
	To render first aid to any injured during
	any emergency. Standby at the Assambly Area with first
	Standby at the Assembly Area with first aid kit during a mass avecuation.
	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

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of a fire. Extinguisher classification markings should be located on the front of the shell above or below the extinguishers 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 7.8 Environmental and Social Management Plan for Operation Phase Responsible Environmental Actions on Time **Impact** & Social Aspect **Prevention** Frame Person Natural Environment The whole Global warming Emission of gaseous Proper **EMT** operation potential substance ventilation of equipment and period 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. Dust Nuisance The whole **EMT** The entire plant operation compound period traversed by vehicles should be paved with a hard. impervious material. More comprehensive cleaning should be carried out as often as necessary.

CMS Apparel Yangon Co.,	Ltd	ı			
Acoustic Impact	Noise at territory and beyond the bounds of the enterprise	•	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) 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) All preventive measures such as regular operation and maintenance of pumps, motors and compressor should be carried out.	The whole operation period	EMT
Water Environment					
Water Pollution	Storm water Drainage System	•	Develop proper drainage systems for storm water and domestic waste water.	The whole operation period	EMT
Colld Works	Sanitation waste water	•	Discharge periodically by contacting Engineering Department (Water and Sanitation) from YCDC	The whole operation period	EMT
Solid Waste	Enumetion and	1	C	The what-	EMT
Concrete waste	Formation and allocation of waste	•	Careful matching of orders with production. Reuse returned concrete for	The whole operation period	EMT

CMS Apparel Yangon Co.,	Ltd			
		other purposes where practical. Use good housekeeping practices to clean up spills of cement and concrete as soon as possible.		
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 on-site 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 	The whole operation period	EMT

CMS Apparel Yangon Co.,	Ltd				
		•	not enter surface and ground water courses. 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	Dollution of oir	Ι_	Dunah a a a +1	The whole	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.	The whole operation period	EMT
Ecological Resources	S	1			
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.	The whole operation period	EMT

CMS Apparel Yangon Co.,	Ltd				
Social Environment Social Sector	Population pressure	•	Use of Labour Force. Provision of ferry service for workers from remote area.	The whole operation period	ЕМТ
Socio-Economic	Employment opportunity to local people	•	Informing of local population on existing vacancies. Maximum possible involvement of local labour force in view of qualifying requirements.	The whole operation period	ЕМТ
Health and Safety	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 labour.	The whole operation period	EMT
Awareness on HIV/AIDS and STD Occupation Health	Spread to the community Dangerous and	•	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 The whole	ЕМТ
Occupation Health and Safety	Dangerous and unhealthy working conditions	•	Provision of personnel with primary healthcare. Placing at the factory of information and warning	The whole operation period	EMT

CMS Apparel Yangon Co.,	Ltd		•		
		•	signs and fences. Conformity of working places to OT requirements Application of personal protective equipment. Ensure labour 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.	The whole operation period	EMT
	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.	The whole operation period	EMT
	Poor Ergonomic	•	Use hand trucks or forklifts when possible. Truck drivers should be informed about ergonomic risk factors.	The whole operation period	EMT
	Slips, Trips and Falls	•	Do not walk or work under overhead loads	The whole operation period	EMT

CMS Apparel Yangon Co.,	Ltd				
		•	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

enist inprince rungen cen, r				
	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

Environmental & Social Aspect	Impact	Actions on Prevention	Time Fran	ne 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: Dust nets will be provided around the demolition area. Practice dust management techniques, including watering down dust. Provide PPE against dust (i.e 	Through- out decommi- ssioning phasae	Contractor Site Engineer Technician
Noise	Long/short term noise nuisance and hearing loss	 Mask) Schedule noisy activities during day 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 	Through- out decommi- ssioning phasae	Contractor Site Engineer Technician

CMS Apparel Yangon Co	., Lta		1	
		muffs to the workers in high noise area.		
Water Environmen	nt			
Water Pollution	Contamination of surface and under ground 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 decommi- ssioning phasae	Contractor Site Engineer Technician
Waste				
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. Disposal of solid waste in compliance with local government policy. Usable infrastructures will be hand over to the township authorities for future community use. 	Through- out decommi- ssioning phasae	Contractor Site Engineer Technician
Social Environmen				Contract
Interaction with public	Safety	Informing of public on demolition process	Through- out decommi- ssioning phasae	Contractor Site Engineer Technician
Health and Safety	Topidonts - 1	Di 1 1 1	Th 1	Contracts
Occupational Health and Safety	Incidents and accidents leading to serious injury or fatalities	Placing at the site of information and warning signs and fences.	Through- out decommi- ssioning phasae	Contractor Site Engineer Technician

CMS Apparel Yangon Co.	, Ltd	
		• Ensure
		provision of
		appropriate PPE
		for staff such as
		o Ear muffs
		for ear
		protection,
		o Helmets for
		head
		protection,
		O Dust masks
		for dust
		protection
		for all
		project
		works,
		o Goggles
		with good
		visibility for
		eye
		protection,
		o Overalls and
		dust coats to
		protect the
		skin,
		o Safety shoes
		for
		protection of
		the feet,
		o Gloves of
		different
		types
		according to
		specific
		works in
		relation to
		puncture
		resistance;
		sharps
		resistance:
		cut
		resistance;
		flexibility;
		abrasion
		resistance;
		grip.
Emergency	Fires and	• Storage of
	explosions at the	inflammable
	site	and 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 Environmental Monitoring Plan

as provided in a schedule in the EMP.

A chemical or process industry in general produces solid, liquid and gaseous wastes which are discharged to the environment. The waste product may contain pollutants which may harm environment. It is the responsibility of the industries to prevent or minimize the discharges of waste products by adopting suitable control measures in the factory. The effectiveness of such measures is ascertained by systematic monitoring of discharges at factory level and at receiving level.

Environmental monitoring is a very important aspect of environmental management during construction, operation and decommissioning stages of the project to safeguard the environment.

The scope of the Environmental Monitoring Plan shall include;

- To identify and resolve environmental issues and other functions that may arise during the construction and operational phases;
- To implement water quality, air quality and noise impact monitoring plan during the operational phase;
- To check and quantity the environmental performance and recommend and implement remedial actions;
- To conduct regular reviews of monitored data as the basis for assessing compliance with defined criteria and to ensure that necessary mitigation measures are identified, designed and implemented; and
- To asses and interpret all environmental monitoring data to ascertain whether environmental control measures and practices are functioning in accordance to specifications.

The objective of environmental monitoring is to systematically collect environmental data and support information needed for evaluation of the environmental performance. The frequency and methods of data collection must ensure that the data obtained are reliable and meaningful, i.e. they will adequately reflect the project environmental performance. A proposed environmental monitoring program must be practical, relevant and cost effective.

The project proponent will also be responsible for the implementation of monitoring, summarization monitoring results, and submission of monitoring report to the Ministry of Natural Resources and Environmental Conservation (NONREC) periodically through the local Environmental Conservation Department (ECD).

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 7.10 is provided the environmental monitoring schedule for CMS Apparel Yangon Co., Ltd. The factory submits monitoring report to the Ministry not less frequently than every six months

Table 7.10 Environmental Monitoring Schedule for CMS Apparel Yangon Co., Ltd

Environmental issues	Parameter	Recommended monitoring frequency	Area to be monitored	Responsible Section
Air quality	Stack & ambient air emission (CO2, CO, SO2, NOx, PM2.5, PM10)	Biannually in operation phase	Within the factory area	Responsible officer of CMS Apparel Yangon Co., Ltd
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 CMS Apparel Yangon Co., Ltd
Noise	Noise level in decibel	Biannually	Operation area	Responsible officer of CMS Apparel Yangon Co., Ltd
Waste management	-Garbage collection cleaning - Maintenance	-Daily -Daily	-Temporary storage sites of proposed factory	Responsible officer of CMS Apparel

CMS Apparel Yangon	Co., Lia		-Record disposed	Yangon Co.,
			frequency	Ltd
Energy	Liters of	-Monthly	Generator house and	Responsible
consumption	Diesel/fossil	monitoring of	fuel storage area	officer of CMS
	fuel for the	energy use		Apparel
	generator	-Daily monitoring		Yangon Co.,
Water	A 11 vysatau taus	of fuel use	Watan diatnihartian	Ltd
Water	-All water taps shut off when	-Daily	Water distribution	Responsible officer of CMS
consumption	not use		area	Apparel
	-Power to	-Daily		Yangon Co.,
	unused	-Daily		Ltd
	equipment shut			Ltd
	off at the			
	distribution			
	panel			
Emergency	-Extinguisher's	-Daily		Responsible
response	position Water by dramts			officer of CMS
equipment	-Water hydrants -Firemen	-Daily		Apparel
	switch testing	-Monthly		Yangon Co.,
	-Servicing fire	O1		Ltd
	extinguishers -Review	-Quarterly		
	records of	-Quarterly		
	accident	-Quarterry		
	-OHS training	-Biannually		
Decommissionin	g Phase	Diaminality	1	
Air quality	PM2.5,PM10	One time during	One point in the	CMS Apparel
		this phase	production area	Yangon Co.,
		_		Ltd
Water quality	pH, DO, BOD,	One time during	Final discharge	CMS Apparel
	COD, TDS,	this phase	point of factory	Yangon Co.,
	Temp, Oil and		drainage	Ltd
	Grease,			
	Chlorine, Arsenic			
Noise	Noise level in	One time during	One point in the	CMS Apparel
110150	decibel (dBA)	this phase	demolishing area	Yangon Co.,
	decider (dDA)	ins phase	demonstring area	Ltd
Rehabilitation	Recovering and		All	CMS Apparel
	revegetation		decommissioning	Yangon Co.,
			area	Ltd

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 CMS Apparel Yangon Co., Ltd 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.

CMS Apparel Yangon Co., Ltd 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 7.11.

Table 7.11 CSR Plan at CMS Apparel Yangon Co., Ltd

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, CMS Apparel Yangon Co., Ltd 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 7.12.

Table 7.12 Cost Estimation for EMP Implementation

Table 7.12 Cost Estimation for EMF Implementation				
No	Item	Frequency/Times	Cost (USD)	
Mitigation plan				
1	Maintenance of air ventilation system	Once per year	200 per year	
2	Grass plantation within the area of	Once per three month	100 per three	
	factory compound	_	month	
3	Solid waste disposal	12	1000 per year	
4	Purchase of personal protective	Once per half a year	200 per half a year	
	equipment (PPE)			
5	Medical checkup and health	Once per year	500 per year	
	insurances			
Emergency preparedness				
1	Fire extinguisher	Once per month		
2	Fire alarm system	Once per month	500 per month	
3	First aid fits	Once per month		
Monitoring Plan				
1	Wastewater	2	200 per year	
2	Noise level	2	300 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 CMS Apparel Yangon Co., Ltd representative from Shwe Lin Ban Industrial Zone and representative from general administration department (Hlaing Thar YarTownship). 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**), through the CMS Apparel Yangon Co., Ltd.

8. EMPLOYEE WELFARE PALN

CMS Apparel Yangon Co., Ltd is always proactive to provide a peace and harmony workplace for all of its employees. Employee Welfare Plan of CMS Apparel Yangon Co., Ltd is as follows.

Staff Transportation

CMS Apparel Yangon Co., Ltd 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

CMS Apparel Yangon Co., Ltd 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

CMS Apparel Yangon Co., Ltd 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.

CMS Apparel Yangon Co., Ltd 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, CMS Apparel Yangon Co., Ltd arranges for the employees to have a chance of medical check-ups by medical officers from government worker hospital.

Ready for Emergency

CMS Apparel Yangon Co., Ltd 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 CMS Apparel Yangon Co., Ltd is located at No. (278/1), Wun Saung Mhu Street and Corner of Hlay Thin Atwin Wun U Chain Street, Shwe Lin Ban 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.





Environmental Management Plan Report CMS Apparel Yangon Co., Ltd Appendix (B) Photo Records of Air Quality Monitoring at Factory



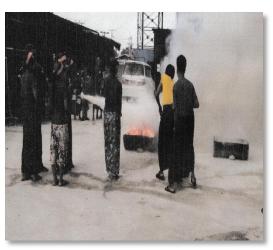












Appendix (D) Photo Records of Occupational Health and Safety Management













