

JIANGSU SOHO (MYANMAR) GARMENT COMPANY LIMITED

Environmental Management Plan

Manufacturing of Garment on CMP Basis



Myanwei Environmental Solutions Company Limited

14-Mar-22

Date: 14, 3, 2022

Attention: Dear Director

Environmental Conservation Department

Subject: Environmental Management Plan (EMP) Report in respect of the Manufacturing of Garment by Jiangsu Soho (Myanmar) Garment Company Limited.

EMP report describes the environmental condition of a project, including significant impact, formulation of mitigation measures and preparation of institutional requirements and environmental monitoring.

Myanwei Environmental Solutions Company Limited has prepared this report with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporating our General Terms and Conditions of Business and taking into account of the resources devoted to it by agreement with the client. We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above. This report is confidential to the client and we accept no responsibility of whatsoever nature to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

We strongly commit that this report was prepared in compliance with Myanmar Environmental Laws and Regulations.

The signature block contains a blue circular stamp from MYANWEI ENVIRONMENTAL SOLUTIONS COMPANY LIMITED. The stamp has a star at the bottom and fields for "No." and "Date." inside. Below the stamp is a handwritten signature in blue ink. Underneath the signature, the name "LIN HTET SEIN" is printed in bold, followed by "DIRECTOR" and "MYANWEI ENVIRONMENTAL SOLUTIONS COMPANY LIMITED." in a smaller font.

LIN HTET SEIN
DIRECTOR
MYANWEI ENVIRONMENTAL SOLUTIONS
COMPANY LIMITED.



Jiangsu Soho (Myanmar) Garment Company Limited

Plot No. 88, Myay Taing Block No. 64 (SETHMU), Shwe Pyi Thar Township, Yangon Region

Date: 14, 3, 2022

Dear: Director

Environmental Conservation Department

Nay Pyi Taw

Subject: Environmental Management Plan (EMP) Report in respect of the Manufacturing of Garment

We refer to the captioned EMP report, which has been prepared by Myanwei Environmental Solutions Co., Ltd. (Third Party Consultant) in compliance with EIA procedure (2015) and other related laws/rules.

We believe, to the best of our knowledge at the time of writing, that;

- The EMP report is accurate and complete
- The EMP report has been prepared in strict compliance with all applicable laws, rules, regulations and procedures in force.

Jiangsu Soho (Myanmar) Garment Company Limited will at all times comply fully with all commitment and obligations in the EMP report.

We acknowledge and understand that

Mr. Huang Tianshu
Promoter

Jiangsu Soho (Myanmar) Garment Company Limited

LIST OF CONTENTS

LIST OF CONTENTS	I
LIST OF TABLES	V
LIST OF FIGURES.....	VII
LIST OF APPENDICES.....	IX
ABBREVIATION	X
အစီရင်ခံစာအကျဉ်းချုပ်.....	XI
EXECUTIVE SUMMARY	XXVIII
1. INTRODUCTION.....	1
1.1. AIM OF ENVIRONMENTAL MANAGEMENT PLAN	1
1.2. OBJECTIVE OF ENVIRONMENTAL MANAGEMENT PLAN.....	1
1.2.1. Institutional Requirement.....	3
1.2.2. Responsibilities of the EMP	3
1.2.3. Structure and Responsibilities for the EMP Development and Implementation	3
1.3. PROJECT BACKGROUND	5
1.4. PROJECT PROPONENT PROFILE	5
1.4.1. Investment Plan and Salient Features of the Project	6
1.5. ENVIRONMENTAL CONSULT PROFILE	8
2. POLICY, LEGAL AND INSTITUTIONAL FRAMEWORK.....	10
2.1. MYANMAR REGULATORY FRAMWORK	10
2.1.1. Laws and Regulations Related to Environmental and Social Considerations.....	10
2.2. NATIONAL ENVIRONMENTAL QUALITY (EMISSION) GUIDLINES	22
2.2.1. General Guidelines.....	22
2.2.2. Garment, Textile and Leather Products Manufacturing.....	25
2.2.3. IFC EHS Guidelines	26
2.3. INSTITUTIONAL ARRANGEMENT	27
2.4. COMMITMENT OF JIANGSU SOHO (MYANMAR) GARMENT COMPANY LIMITED.....	27
3. PROJECT DISCRPTION.....	29
3.1. LOCATION OF PROPOSED PROJECT.....	29
3.2. OBJECTIVES OF PROPOSED PROJECT.....	29
3.3. SITE DESCRIPTION OF PROPOSED PROJECT SITE	29
3.4. ADJACENT MAP OF PROPOSED PROJECT	29
3.5. PROJECT OPERATION	35

Environmental Management Plan

3.5.1.	Production Process	35
3.6.	UTILITIES.....	38
3.6.1.	Raw Material	38
3.6.2.	Machinery and Equipment.....	39
3.6.3.	Human Resource	40
3.6.4.	Water Requirement	41
3.6.5.	Electricity and Fuel Requirement.....	42
3.6.6.	Boiler.....	43
3.7.	FACILITIES	44
3.7.1.	Status of the Factory	44
3.7.2.	Industrial Wastes facilities	44
3.7.3.	Human wastes facilities	45
3.7.4.	Fire hazards protect facility.....	46
3.7.5.	Ventilation System.....	46
3.7.6.	Toilet facilities.....	47
3.7.7.	Medical and Health facilities for employees	47
3.8.	DECOMMISSIONING PHASE	48
4.	BRIEF DESCRIPTION OF SURROUNDING ENVIRONMENT	49
4.1.	METHODOLOGY FOR DATA COLLECTION AND ANALYSIS	49
4.2.	ENVIRONMENTAL BASELINE STUDY	49
4.3.	PHYSICAL COMPONENT IN PROJECT AREA.....	50
4.3.1.	Topography	50
4.3.2.	Geology.....	50
4.3.3.	Tectonics.....	51
4.3.4.	Soil	52
4.3.5.	Hydrogeology	53
4.3.6.	Climate and Meteorology.....	53
4.3.7.	Temperature and Humidity	56
4.3.8.	Indoor temperature and humidity.....	58
4.3.9.	Air Quality.....	59

Environmental Management Plan

4.3.10. Noise	59
4.3.11. Light	61
4.3.12. Drinking Water Quality Test.....	62
4.4. BIOLOGICAL COMPONENT.....	63
4.5. SOCIO-ECONOMIC COMPONENT.....	63
4.5.1. Population	63
4.5.2. Religion	63
4.5.3. Local Economy.....	63
4.5.4. Public Infrastructure and Access	64
4.6. CULTURAL AND VISUAL COMPONENTS.....	66
5. ENVIRONMENTAL IMPACT AND MITIGATION MEASURES	67
5.1. METHODOLOGY FOR THE ASSESSMENTS	67
5.2. IMPACT IDENTIFICATION	68
5.2.1. Positive Impact.....	68
5.2.2. Negative Impact	68
5.3. POTENTIAL ENVIRONMENTAL IMPACT DURING CONSTRUCTION & DECOMMISSIONING PHASE	69
5.4. PROJECT ACTIVITIES AND ITS SIGNIFICANT IMPACTS	69
6. ENVIRONMENTAL MANAGEMENT ACTION	76
6.1. AIR POLLUTION/ DUST MANAGEMENT PLAN	76
6.2. NOISE MANAGEMENT PLAN	77
6.3. FIRE MANAGEMENT PLAN	77
6.4. OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT PLAN	78
6.5. SOLID WASTE MANAGEMENT PLAN.....	79
6.6. LIQUID WASTE MANAGEMENT PLAN (WASTEWATER).....	79
6.7. HAZARDOUS WASTE MANAGEMENT PLAN	80
6.8. ENERGY MANAGEMENT PLAN	81
6.9. EMERGENCY RESPONSE AND DISASTER MANAGEMENT PLAN.....	81
6.10. ENVIRONMENTAL MONITORING SCHEDULE AND REPORTING	82
6.11. CAPACITY BUILDING AND TRAINING PLAN	84
6.11.1. Assignment of Responsibilities	84
6.11.2. Emergency Procedures	84
6.11.3. Training for Emergencies.....	84
6.11.4. Fire Prevention and Protection	84
6.11.5. Fire Protection Equipment	85

Environmental Management Plan

6.11.6. Fire Safety and Evacuation Plan.....	85
6.11.7. Site Fire Control	87
6.11.8. Employee Information and Training	87
6.11.9. Health and Safety Training Plan for Worker.....	87
6.12. CORPORATE SOCIAL RESPONSIBILITY (CSR) PLAN	88
6.12.1. Public School.....	88
6.12.2. Non-profit Training.....	88
6.12.3. Healthcare	89
6.13. GRIEVANCE REDRESS MECHANISM (GRM)	89
7. PUBLIC CONSULTATION DISCLOSURE.....	90
7.1. PUBLIC CONSULTATION PROCESS	90
8. CONCLUSION & RECOMMENDATION.....	92
8.1. CONCLUSION.....	92
8.2. RECOMMENDATION	92
9. REFERENCE	94

LIST OF TABLES

Table 1-1	Responsibilities of HSE Members	4
Table 1-2	Information of Investor.....	5
Table 1-3	Director List.....	6
Table 1-4	Salient features of the project.....	6
Table 1-5	Member of EMP Study Team	8
Table 2-1	List of Myanmar's Law relating to environmental management	10
Table 2-2	WHO's Air Quality Guideline	23
Table 2-3	Wastewater, Storm Water Runoff, Effluent and Sanitary Discharges.....	23
Table 2-4	Noise Levels of National Environmental Quality (Emission) Guideline.....	24
Table 2-5	Community health and safety contents.....	26
Table 3-1	Jiangsu Soho (Myanmar) Garment Company Limited's Project Life Span.....	35
Table 3-2	Annual Production Rate	37
Table 3-3	List of Raw Materials Requirement.....	38
Table 3-4	List of Machinery	39
Table 3-5	Employment Schedule of Jiangsu Soho (Myanmar) Garment Company Limited	40
Table 3-6	Specification of Electric Boiler	43
Table 4-1	Location of the Survey Point	49
Table 4-2	Annual rainfall and temperature	56
Table 4-3	Relative humidity and temperature measure at factory.....	58
Table 4-4	Observed air quality results.....	59
Table 4-5	Noise level measurement result	60
Table 4-6	Recommended illumination and limiting glare index based on IES Code, 1968.....	61
Table 4-7	Result of light measurement in Jiangsu Soho (Myanmar) Garment factory	62
Table 4-8	Drinking Water quality laboratory results	62
Table 4-9	Population of Males and Females at Shwe Pyi Thar Township (2019)	63
Table 4-10	Religion in Shwe Pyi Thar Township (2019)	63
Table 4-11	Transportation route.....	64

Environmental Management Plan

Table 4-12 List of major school in Shwe Pyi Thar Township.....	65
Table 4-13 Common Diseases in the Shwe Pyi Thar Township	65
Table 4-14 Lists of hospital in the Shwe Pyi Thar Township.....	65
Table 5-1 Impact assessment parameters and its scale.....	67
Table 5-2 Evaluation and Perditiion of Significant Impacts and Mitigation Measures on Operation phase	70
Table 5-3 Evaluation and Predication of Significant Impacts and Mitigation Measure on Decommissioning Phase.....	73
Table 6-1 Environmental Monitoring Process.....	82
Table 6-2 American National Fire Fighting Association (NFFA) Standards.....	86
Table 6-3 Training Plan Used in Jiangsu Soho (Myanmar) Garment Company Limited	87
Table 6-4 CSR plan at Jiangsu Soho (Myanmar) Garment Company Limited	88

LIST OF FIGURES

Figure 1-1 Continuous Improvement Circle	2
Figure 1-2 Organization Structure of Environmental Management Plan	4
Figure 1-3 Organization chart of Jiangsu Soho (Myanmar) Garment Company Limited	7
Figure 3-1 Location Map of Jiangsu Soho (Myanmar) Garment Co., Ltd.	30
Figure 3-2 Factory Layout Map (Google source)	31
Figure 3-3 Adjacent Location Map of Proposed Project.....	32
Figure 3-4 First Floor Factory Layout Drawing.....	33
Figure 3-5 Second Floor factory Layout Drawing.....	34
Figure 3-6 Production flow diagram of Jiangsu Soho (Myanmar) Garment factory	36
Figure 3-7 Production Photos.....	37
Figure 3-8 Products Photo	38
Figure 3-9 Water storage tank and drinking water supply	42
Figure 3-10 Electricity Facilities	43
Figure 3-11 Installed photo of boiler	44
Figure 3-12 Solid Waste Disposal System.....	45
Figure 3-13 Drainage System of Factory	45
Figure 3-14 Emergency safety and fire management	46
Figure 3-15 Ventilation System	47
Figure 3-16 Toilet Facilities Photos	47
Figure 3-17 Clinic Room Photo	48
Figure 4-1 Baseline Study Map	50
Figure 4-2 Geological Map of Yangon Region	51
Figure 4-3 Soil map of Yangon (Source: Land use of Bureau of Yangon).....	52
Figure 4-4 Climate Summary of Yangon Region	54
Figure 4-5 Average Temperature of Yangon Region	54
Figure 4-6 Cloud Cover Categories	55
Figure 4-7 Average Monthly Rainfall at Yangon Region	56

Environmental Management Plan

Figure 4-8 Humidity of Yangon.....	57
Figure 4-9 Average Wind Speed in Yangon	58
Figure 4-10 Humidity and Temperature Measurement Photo	58
Figure 4-11 Air Quality Measurement Photos.....	59
Figure 4-12 Noise level result graph.....	60
Figure 4-13 Sound level measurement photo.....	60
Figure 4-14 Light quality measurement	61
Figure 5-1 Potential negative impact affect from proposed factory project.....	68
Figure 5-2 Comparison of Impact Significant of Proposed Project.....	75
Figure 6-1 Grievance Redress Mechanism flow diagram	89
Figure 7-1 Announcement Post of Proposed Project at social media	91

LIST OF APPENDICES

APPENDIX A Company Document's Jiangsu Soho (Myanmar) Garment Company Limited

APPENDIX B Transitional Consultant Registration Certificate

APPENDIX C Monitoring Result

APPENDIX D Water Quality Result

APPENDIX E Fire Safety Training

APPENDIX F First Aid Certificate

APPENDIX G Public Disclose Power Point Presentation

Abbreviation

1. CEMP	= Construction Environmental Management Plan
2. CMP	= Contract Manufacturing Process
3. CSR	= Corporate Social Responsibility
4. ECC	= Environmental Compliance Certificate
5. ECD	= Environmental Conservation Department
6. EIA	= Environmental Impact Assessment
7. EMoP	= Environmental Monitoring Plan
8. EMP	= Environmental Management Plan
9. GIIP	= Good International Industry Practices
10. HSE	= Health, Safety and Environment
11. IEE	= Initial Environmental Examination
12. IFC	= International Finance Corporation
13. NEQG	= National Environmental Quality (Emission) Guidelines
14. MIC	= Myanmar Investment Commission
15. MOECF	= Ministry of Environmental Conservation and Forestry
16. MONREC	= Ministry of Natural Resources and Environmental Conservation
17. OEMP	= Operation Environmental Management Plan
18. OSHA	= Occupational Safety and Health Administration
19. PPE	= Personal Protective Equipment
20. WHO	= World Health Organization
21. YCDC	= Yangon City Development Committee
22. YESB	= Yangon City Electricity Supply Board

အစီရင်ခံစာအကျဉ်းချုပ်

နိဒါန်း

လူတိုင်းသည် သန့်ရှင်းပြီး ကျန်းမာသည့် နေရာတွင်နေထိုင်လိုကြသည်။ ယခုအချိန်တွင် ကမ္ဘာ့မြေ၏အဓိက စိုးရိမ်ပူပန်မှုမှာ ပတ်ဝန်းကျင် ပြောင်းလဲမှုဖြစ်စဉ်များကြောင့်ဖြစ်သည်။ အဘယ်ကြောင့်ဆိုသော် လူသားတို့၏ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအပေါ် ပေါ်ဆူမှုကြောင့်ဖြစ်သည်။ ထို့ကြောင့် သဘာဝပတ်ဝန်းကျင် ထိခိုက်မှုမဖြစ်စေရေး၊ ရေရှည်စဉ်ဆက်မပြတ် တိုးတက်ကောင်းမွန်ရေးအတွက် စနစ်ကျသော ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်ရှိရန်လိုအပ်ပါသည်။ ထို့ကြောင့် Jiangsu Soho (Myanmar) Garment Company Limited ၏ ထုတ်လုပ်မှုလုပ်ငန်းအတွက် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ် (EMP) ကို အကောင်အထည်ဖော်ခဲ့ပါသည်။ EMP ၏ အဓိက ရည်ရွယ်ချက်မှာ ညစ်ညမ်းမှုထိန်းသိမ်းရေး၊ စွန့်ပစ်ပစ္စည်းလျော့ချရေးနှင့် စွန့်ပစ်ပစ္စည်းများကို ပြန်လည်အသုံးပြုရေး အစီအစဉ်များကို အလေးထားဖော်ပြထားပြီး၊ စက်မှုလုပ်ငန်းဆိုင်ရာ တိကျသော ထိန်းချုပ်မှု အစီအမံများအပြင် အခြားအဆိုပြုထားသည့် စက်မှုလုပ်ငန်းသည် အောက်ပါလမ်းညွှန်ချက်များကို လိုက်နာသင့်သည်။

အဆိုပြုလုပ်ငန်းသည် CMP စနစ်ဖြင့် အဝတ်အထည်အမျိုးမျိုး ချုပ်လုပ်ခြင်းလုပ်ငန်းအတွက် ရင်းနှီးမြှုပ်နှံသော ကုမ္ပဏီဖြစ်ပါသည်။ ရင်းနှီးမြှုပ်နှံမှုလိုင်စင်ကို ၂၀၂၀ခုနှစ်၊ ဖေဖော်ဝါရီလ၊ ၂ ရက်နေ့တွင် (ထောက်ခံချက်အမှတ်-ရကတ ၃၅၂/၂၀၂၀)ဖြင့် ရန်ကုန်တိုင်းဒေသကြီး ရင်းနှီးမြှုပ်နှံမှုကော်မတီမှ ရရှိပြီးဖြစ်ပါသည်။ လုပ်ငန်းလည်ပတ်ရန်အတွက် မြန်မာနိုင်ငံသယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင် ထိန်းသိမ်းရေးဝန်ကြီးဌာန (MONREC) ၏ အတည်ပြုချက်ရယူရန် လိုအပ်ကြောင်း ကော်မရှင်မှ မှာကြားခဲ့ပါသည်။

ထို့ကြောင့် မြန်မာနိုင်ငံ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဥပဒေ (၂၀၁၂)အရ၊ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) ပြုလုပ်ရန်လိုအပ်ကြောင်း ၂၀၂၂ ခုနှစ်၊ ဇန်နဝါရီလ၊ ၁၃ ရက်နေ့တွင် စာအမှတ်၊ ရက/အီးအိုင်အေ/၂(၁) (၀၉၇/၂၀၂၂)ဖြင့် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန ရန်ကုန်တိုင်းဒေသကြီးမှ သဘောထားမှတ်ချက် ရရှိပြီးဖြစ်ပါသည်။ ထို့ကြောင့် EMP အစီအရင်ခံစာရေးဆွဲရန် တတိယအဖွဲ့အစည်းဖြစ်သော Myanwei Environmental Solutions Company Limited မှ တာဝန်ယူရေးဆွဲခဲ့ပါသည်။

ရင်းနှီးမြှုပ်နှံသူ၏ အချက်အလက်

ရင်းနှီးမြှုပ်နှံသူ အမည်	Mr. Huang Tianshu
ID No.:	G49037241
နိုင်ငံသား	တရုတ်နိုင်ငံသား
မှတ်ပုံတင်သွင်းသည့် လိပ်စာ	No.48, Ruan Jian Road, Yu Hua, Nan Jing, Jiangsu Province, China
ဖုန်းနံပါတ်	09-43135068

Environmental Management Plan

အဆိုပြုထားသော စီမံကိန်း၏ အဓိကလက္ခဏာများ

အဆိုပြုထားသော စီမံကိန်း	CMP စနစ်ဖြင့် အဝတ်အထည်ချုပ်လုပ်ခြင်းလုပ်ငန်း
ရင်းနှီးမြှုပ်နှံမှုပုံစံ	၁၀၀ % နိုင်ငံခြားသားရင်းနှီးမြှုပ်နှံမှု
ကုမ္ပဏီအမည်	Jiangsu Soho (Myanmar) Garment Company Limited
အဆိုပြုရင်းနှီးမြှုပ်နှံမှုကာလ	နှစ် ၃၀
စုစုပေါင်းမြေကွက်ဧရိယာ	၁.၂၅၂ ဧက (၅၀၆၆.၆၆၄၂ စတုရန်းမီတာ)
မြေနေရာပုံစံ	စက်မှုဇုန်မြေ
တည်ဆောက်မှုကာလ	၁ နှစ်
စီမံကိန်း တည်နေရာ	မြေကွက်အမှတ် (၈၈)၊ မြေတိုင်းရပ်ကွက်အမှတ် ၆၄ (စက်မှုမြေ)၊ ရွှေပြည်သာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး။
ဆက်သွယ်ရန် ဖုန်းနံပါတ်	ဒေါ်သင်းယုဝေ ၀၉-၄၅၀၅၃၉၂၄၃ Thiriyuwai0209@gmail.com

အဆိုပြုလုပ်ငန်း၏ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်ကို Myanwei Environmental Solutions Co., Ltd. မှ တာဝန်ယူ ရေးဆွဲထားပါသည်။

ဥပဒေနှင့် မူဝါဒဆိုင်ရာ အချက်အလက်များ

ဥပဒေနှင့် နည်းဥပဒေ အခန်းတွင် MONREC မှ ထုတ်ပြန်ထားသည့် ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများ၊ အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များအပြင် စက်ရုံနှင့်ဆက်စပ်သက်ဆိုင်နေပြီး လိုက်နာရမည့် ဥပဒေနှင့် နည်းဥပဒေများ၊ ဒေသတွင်း သို့မဟုတ် အပြည်ပြည်ဆိုင်ရာ သဘာဝပတ်ဝန်းကျင်နှင့် လူမှုပတ်ဝန်းကျင်ဆိုင်ရာ မူဝါဒများ၊ ဆက်စပ်နေသည့် နိုင်ငံတကာသဘောတူချက်များကို အကျဉ်းချုပ်ရေးသားဖော်ပြထားပါသည်။

1. Constitution 2008
2. Environmental Conservation Law, 30 March 2012
3. Environmental Conservation Rules, 2014
4. Environmental Impact Assessment Procedure (December 2015)
5. National Environmental Quality (Emission) Guideline (NEQG) (December 2015)
6. National Environmental Policy of Myanmar (2019)
7. Foreign Investment Law, 2012

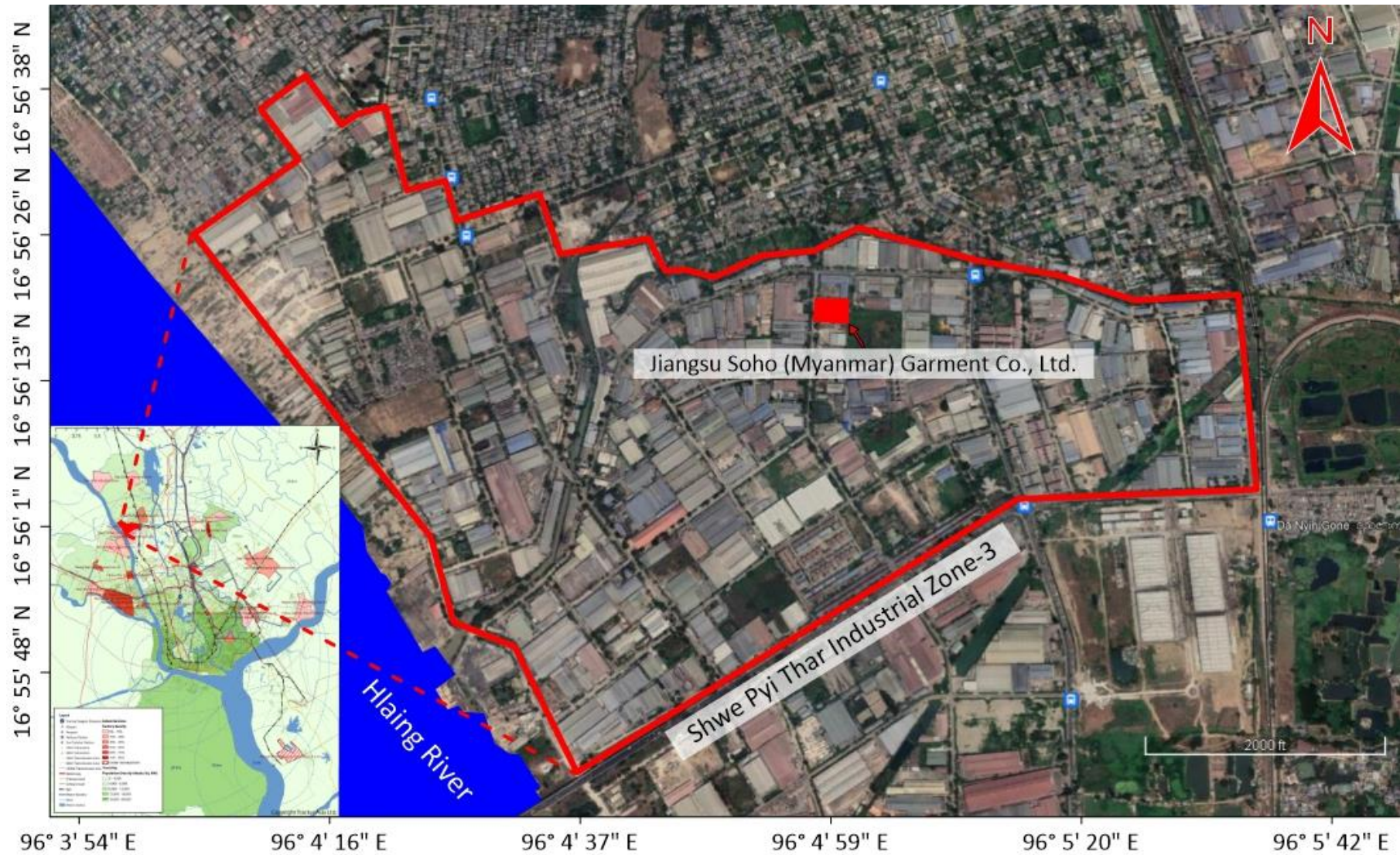
Environmental Management Plan

8. Foreign Investment Rule, 2013
9. Myanmar Investment Rule, 2017
10. Myanmar Insurance Law (1993)
11. Payment of Wages Law (2016)
12. Yangon City Development Committee Law (2018)
13. The Amended Law for Factories Act, 1951 (2016)
14. The Private Industrial Enterprise Law, 1990
15. The Export and Import Law (2012)
16. The Prevention of Hazard from Chemical and Related Substances Law, 2013
17. Underground Water Act
18. Myanmar Fire Brigade Law (2015)
19. The Electricity Law (2014)
20. Boiler Law (2015)
21. Labor Dispute Settlement Law (28 March 2012 replacing 1929 version)
22. The Social Security Law (2012)
23. The Employment and Skill Development (2013)
24. The Worker's Compensation Act, 1923
25. The Payment of Wages Act, 1936
26. The Leave and Holidays Act, (1951, partially revised in 2014)
27. The Minimum Wage Law (2013)
28. Public Health Law (1972)
29. Prevention and Control of Communicable Disease Law 1995 (Amendment in 2011)
30. Occupational Safety and Health Law (2019)
31. The Law on Standardization
32. လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတက်သောဝတ္ထုပစ္စည်းများဆိုင်ရာဥပဒေ (၂၀၁၈)
33. The Motor Vehicles Law (2015)
34. The Conservation of Water Resources and River Law (2006)
35. The Commercial Tax Law (1990) Amended 2014

လုပ်ငန်းအကြောင်းအရာဖော်ပြချက်

Jiangsu Soho (Myanmar) Garment Co., Ltd စက်ရုံသည် မြေကွက်အမှတ် ၈၈၊ မြေတိုင်းရပ်ကွက်အမှတ် ၆၄ (စက်မှု)၊ ရွှေပြည်သာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီးတွင်တည်ရှိပြီး မြေဧရိယာစုစုပေါင်း ၁.၂၅၂ ဧက (၅၀၆၆.၆၆၄၂ စတုရန်းမီတာ) ကျယ်ဝန်းပါသည်။

Environmental Management Plan



စက်ရုံ၏ တည်နေရာပြမြေပုံ

Environmental Management Plan



စက်ရုံ၏ တည်ဆောက်ပြမြေပုံ

Environmental Management Plan

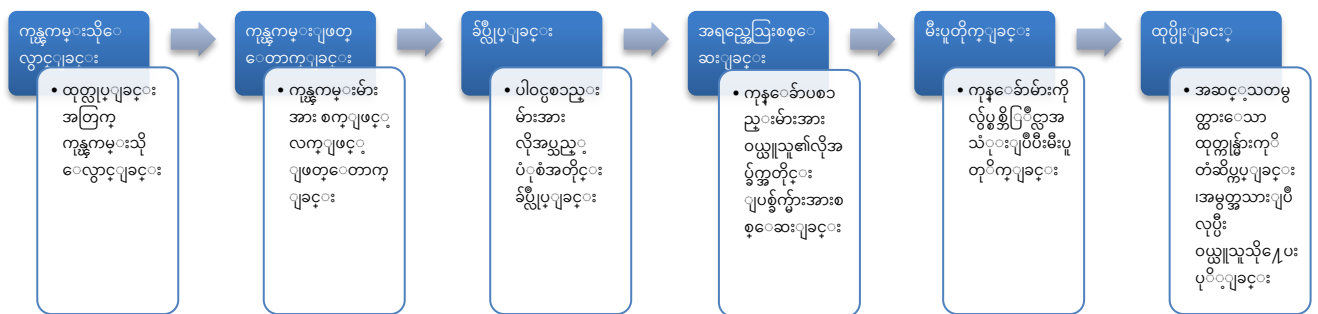


စက်ရုံ၏ပတ်ဝန်းကျင်ပြမြေပုံ

Environmental Management Plan

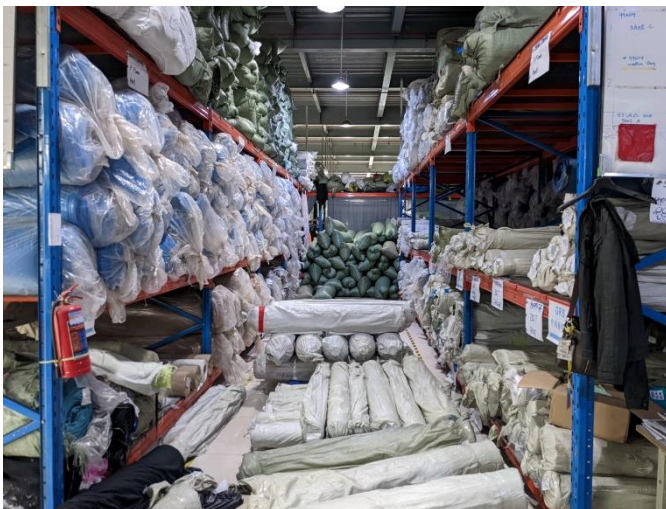
Jiangsu Soho (Myanmar) Garment Company Limited ၏ အဓိက ကုန်ကြမ်းမှာ fabric, lining, polyester wadding, zipper, snap button, eyelet, sewing thread, main label, care label, size label, velcro and elastic နှင့် အခြားဆက်စပ်ပစ္စည်းများဖြစ်ပြီး တရုတ်နိုင်ငံ၊ ဂျပန်၊ ကိုရီးယား၊ ဥရောပ နှင့် မွန်ဂိုလီးယားမှ တင်သွင်းပါသည်။ ကုန်ကြမ်းများကို ကုန်ကြမ်းသိုလှောင်ခန်းတွင် စနစ်တကျ သိုလှောင်ထားရှိပါသည်။

Jiangsu Soho (Myanmar) Garment Company Limited ၏ အဓိကထုတ်ကုန်မှာ အဝတ်အထည်အမျိုးမျိုးဖြစ်ပါသည်။



ထုပ်လုပ်ပုံ လုပ်ငန်းအဆင့်ဆင့်

လုပ်ငန်းမှ ပထမနှစ်မှ ၁၀ နှစ်အတွင်း အထည်ရေ (၁၅၃၀၀၀) မှ (၄၉၅၀၀၀)အထိ တိုးမြှင့်ထုတ်လုပ်သွားမည်ဖြစ်သည်။ နိုင်ငံခြားသားလုပ်သား (၁၀)ဦး နှင့် နိုင်ငံသား (ပြည်တွင်း)လုပ်သား (၉၄၅) ဦးဖြင့် ဆောင်ရွက်သွားမည်ဖြစ်သည်။



Warehouse



Cutting Area

Environmental Management Plan



Sewing Area



Ironing Area



Finishing Area



Packing Area

ထုတ်လုပ်ပုံအဆင့်ဆင့်



Environmental Management Plan



ထုတ်ကုန်ဓာတ်ပုံ

အနီးပတ်ဝန်းကျင်အခြေအနေဆိုင်ရာ ဖော်ပြချက်

လက်ရှိပတ်ဝန်းကျင်၏ ပတ်ဝန်းကျင်ဆိုင်ရာအချက်အလက်၊ ပတ်ဝန်းကျင်အရည်အသွေး တိုင်းတာခြင်းများနှင့် သက်ရောက်မှုများကို ၂၀၂၂ ခုနှစ်၊ ဇန်နဝါရီလ၊ ၇ ရက်နေ့တွင် ပြုလုပ်ခဲ့ပါသည်။ ထို့အပြင် စက်ရုံတည်နေရာနှင့် သက်ဆိုင်သည့် အချက်အလက်များဖြစ်သော လူမှုစီးပွားအခြေအနေ၊ ရူပပတ်ဝန်းကျင်ဆိုင်ရာ အချက်အလက်များ၊ ဇီဝပတ်ဝန်းကျင်ဆိုင်ရာ အချက်အလက်များ၊ ရာသီဥတုဆိုင်ရာ အချက်အလက်များ အစရှိသည့်များကို ရန်ကုန်တိုင်းဒေသကြီး၊ ရွှေပြည်သာမြို့နယ်မှ တရားဝင်ပြဌာန်းထားသော မြို့နယ်ဆိုင်ရာ အချက်အလက်များမှ ကိုးကားဖော်ပြထားပါသည်။

အဆိုပြုလုပ်ငန်း၏စစ်တမ်းကောက်ယူမှု

အမျိုးအစား	ရလဒ်
ရာသီဥတုအခြေအနေ	
အပူချိန်	၃၂.၄၄ °C
စိုထိုင်းဆ	၅၂.၉၄ %
ရူညံသံ	
ထုတ်လုပ်မှုဧရိယာအတွင်း	၆၉.၇၉ dBA
လေထုအရည်အသွေး	
PM 10	၆၀.၁၃ µg/m ³
PM 2.5	၅၆.၈၆ µg/m ³
SO ₂	၁၇၁.၀၄ µg/m ³
NO ₂	၁၁ µg/m ³
O ₃	၇၇.၆၂ µg/m ³

Environmental Management Plan

CO	၀.၃၄ $\mu\text{g}/\text{m}^3$
အလင်းရောင်တိုင်းတာမှု	
ဖြတ်တောက်ခြင်း ဧရိယာ	၆၃၂ Lux
ကုန်ကြမ်းသိုလှောင်ထားရှိမှု ဧရိယာ	၆၇၂ Lux
အရည်အသွေး စစ်ဆေးခြင်း ဧရိယာ	၉၅၃ Lux
ချုပ်လုပ်ခြင်း ဧရိယာ	၇၄၆ Lux
ကုန်ချော ထုတ်ပိုးခြင်း ဧရိယာ	၈၉၈ Lux

ပတ်ဝန်းကျင်ထိခိုက်မှု ဆန်းစစ်ခြင်းနှင့် လျော့ချရေးနည်းလမ်းများ

အဆိုပြု စီမံကိန်း၏ အဓိကဖြစ်ပေါ်စေနိုင်သော ပတ်ဝန်းကျင်ထိခိုက်မှုကို အခြေခံစစ်တမ်းများ ပေါ်မူတည်၍ ယေဘုယျ နည်းလမ်းများအတိုင်း လျော့ချမှုများ ပြုလုပ်သွားပါမည်။ ပတ်ဝန်းကျင် ထိခိုက်မှုကို လေ့လာဆန်းစစ်ရာတွင် စီမံကိန်းကာလအတွင်း ထိခိုက်မှု တစ်ခုချင်းစီ၏ ပမာဏ၊ ကြာမြင့်ချိန်၊ ကျယ်ပြန့်မှုနှင့် ဖြစ်နိုင်ချေတို့အား ဖော်ပြထားပါသည်။

အကဲဖြတ်ခြင်း	အတိုင်းအတာ				
	၁	၂	၃	၄	၅
ပမာဏ	မလုံလောက်သော	အနည်းငယ်နှင့် လုပ်ငန်းခွင်ပြောင်းလဲမှုဖြစ်စေနိုင်သော	အသင့်အတင့်နှင့် အနည်းငယ်လုပ်ငန်းခွင်ပြောင်းလဲမှုဖြစ်စေနိုင်သော	မြင့်မားနှင့် သိသာစွာလုပ်ငန်းခွင်ပြောင်းလဲမှုဖြစ်စေနိုင်သော	အလွန်မြင့်မားနှင့် အမြဲတမ်းလုပ်ငန်းခွင်ပြောင်းလဲမှုဖြစ်စေနိုင်သော
အချိန်	၀-၁ နှစ်	၂-၅ နှစ်	၆-၁၅ နှစ်	လုပ်ငန်း လည်ပတ်စဉ် ကာလတစ်လျှောက်	လုပ်ငန်းပိတ်သိမ်းခြင်းကာလအထိ
ကျယ်ပြန့်မှု	လုပ်ငန်းခွင်အတွင်း	ဒေသအတွင်း	မြို့နယ်အတွင်း	နိုင်ငံအတွင်း	နိုင်ငံတကာအတွင်း
ဖြစ်နိုင်ချေ	လုံးဝမဖြစ်နိုင်သော	မဖြစ်နိုင်သော	ဖြစ်နိုင်သော	ဖြစ်နိုင်ချေမြင့်သော	အတိအကျ

$$\text{သတ်မှတ်ချက်} = (\text{ပမာဏ} + \text{အချိန်} + \text{ကျယ်ပြန့်မှု}) * \text{ဖြစ်နိုင်ချေ}$$

ပတ်ဝန်းကျင်ထိခိုက်မှုကိုအောက်ပါအတိုင်း ခွဲခြားနိုင်သည်။

သတ်မှတ်ချက်	ထိခိုက်မှုအဆင့်
<၁၅	အလွန်နိမ့်
၁၅ - ၂၉	နိမ့်

Environmental Management Plan

၃၀ - ၄၄	အလယ်အလတ်
၄၅ - ၅၉	မြင့်
၆၀	အလွန်မြင့်

ပတ်ဝန်းကျင် လက္ခဏာ	လုပ်ငန်းလုပ်ဆောင်မှု	လျော့ချရေးနှင့် ထိန်းချုပ်မှု
လေထုအရည်အသွေး	<ul style="list-style-type: none"> သယ်ယူပို့ဆောင်ရေးသုံး မော်တော်ယာဉ်တို့ကြောင့် ဖုန်မှုန့်နှင့် ဖန်လုံအိမ်ဓါတ်ငွေ့ထွက်ခြင်း လုပ်ငန်းခွင်အတွင်းဖုန်မှုန့် ထွက်ခြင်းအရေးပေါ်သုံး မီးစက်မှာ စွန့်ထုတ်အခိုးအငွေ့ ထွက်ခြင်း 	<ul style="list-style-type: none"> မီးစက် တို့တွင် မီးခိုးခေါင်းတိုင် တပ်ဆင်ခြင်းဖြင့် အခိုးအငွေ့ကြောင့် ပတ်ဝန်းကျင် ထိခိုက်မှုကို လျော့ချခြင်း၊ စက်ရုံအတွင်းနှင့် အနီး အနားတွင် သစ်ပင်ပန်းမံ စိုက်ပျိုးခြင်းဖြင့် carbon ထွက်ရှိမှုကို လျော့ချပေးခြင်း၊ စက်ပစ္စည်းများကို ပုံမှန်ပြုပြင်ထိန်းသိမ်းပေးခြင်း။
မြေဆီလွှာညစ်ညမ်းမှု	<ul style="list-style-type: none"> မတော်တစ စက်ပစ္စည်း၊ မော်တော်ယာဉ်များမှ ဆီယိုဖိတ်ခြင်း 	<ul style="list-style-type: none"> ထိခိုက်မှုလျော့ချရန်မလိုပါ။
ရေအရည်အသွေး	<ul style="list-style-type: none"> မီးဖိုချောင်သုံးမှထွက်ရှိခြင်း 	<ul style="list-style-type: none"> ထိခိုက်မှုလျော့ချရန်မလိုပါ။
ဆူညံသံ နှင့် တုန်ခါမှု	<ul style="list-style-type: none"> မီးစက်၊ အထည်ချုပ်စက် နှင့် မော်တော် ယာဉ် အသုံးပြု မှုကြောင့် ပတ်ဝန်းကျင် ဆူညံမှု 	<ul style="list-style-type: none"> ဆူညံသံများသောစက်ရုံလုပ်ငန်းနေရာများတွင် တစ်ကိုယ်ရည်သုံး ကာကွယ်ရေးပစ္စည်းများ တပ်ဆင်အသုံးပြုစေခြင်း။ အသံထုတ်လွှတ်မှုနည်းသော စက်ပစ္စည်းများ အသုံးပြုခြင်းနှင့် မီးစက်ခန်း၊ ကွန်ပရက်ဆာခန်းများ သီးသန့်ထားရှိစေခြင်း။
ကုန်းနေ အပင်နှင့် သတ္တဝါများ၊ ရေနေသတ္တဝါများ	<ul style="list-style-type: none"> အဝတ်အထည်အမျိုးမျိုး ချုပ်လုပ်ခြင်း လုပ်ငန်း 	<ul style="list-style-type: none"> ထိခိုက်မှုလျော့ချရန်မလိုပါ။
မီးဘေးအန္တရာယ်	<ul style="list-style-type: none"> ကုန်ကြမ်းသိုလှောင်မှု နှင့် လျှပ်စစ်သုံးစွဲ ပေါ့လျော့မှု 	<ul style="list-style-type: none"> စက်ရုံ၏မီးဘေးအန္တရာယ်ကာကွယ်ရန်အတွက် မီးသတ်ပူ၊ မီးသတ်ပိုက်၊ မီးသတ်ခေါင်း များထားရှိခြင်း။ မီးသတ်ဆိုင်ရာစက်ပစ္စည်းကိရိယာများကိုပုံမှန်စစ်ဆေးခြင်း ၊အရေးပေါ်အခြေနေအတွက် မီးသတ်ရေကန်အဆင်သင့်ထားရှိခြင်း။ စက်ရုံအတွင်းအရေးပေါ်အချက်ပေးစနစ်များထားရှိခြင်း။ အရေးပေါ်ထွက်ပေါက်များတစ်လျှောက်တွင် ကုန်ပစ္စည်းများပိတ်ဆို့ခြင်းမရှိအောင်ရှင်းလင်းထားရှိခြင်း။

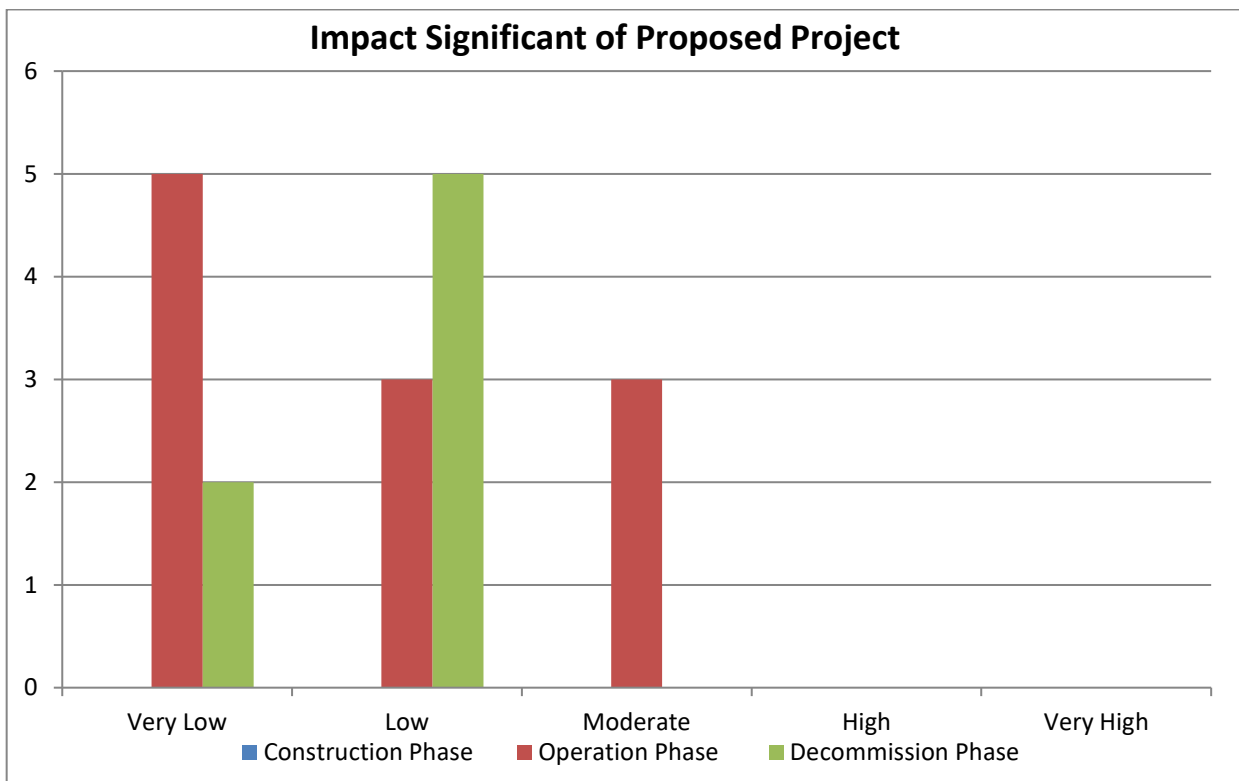
Environmental Management Plan

ပတ်ဝန်းကျင် လက္ခဏာ	လုပ်ငန်းလုပ်ဆောင်မှု	လျော့ချရေးနှင့် ထိန်းချုပ်မှု
လုပ်ငန်းခွင် ဘေးအန္တရာယ်	<ul style="list-style-type: none"> စက်ပစ္စည်းများလည်ပတ်ခြင်းကြောင့် မတော်တဆထိခိုက်မှုများ ဖြစ်ပေါ်နိုင်ခြင်း။ ပစ္စည်းတင်ချပြုလုပ်ခြင်း၊ ဖြတ်တောက်ခြင်း၊ ရောနှောခြင်း၊ ဖိနှိပ်ခြင်း၊ ထုတ်ပိုးခြင်း။ ရေခဲခွေးငွေ့သုံးမီးပူများကြောင့် မတော်တဆထိခိုက်မှုများ ဖြစ်ပေါ်နိုင်ခြင်း။ 	<ul style="list-style-type: none"> အရေးပေါ်အခြေအနေများအတွက် စက်ပစ္စည်းကိုင်တွယ်မှုသင်တန်းပေးခြင်း၊ ကြက်ခြေနီသင်တန်းပေးခြင်း၊ မီးသတ်သင်တန်းပေးခြင်း။ လုပ်ငန်းခွင်တွင်း အလုပ်သမားများ အလင်းရောင်ကောင်စွာရရှိစေရန်နှင့် အမြင်အာရုံမထိခိုက်စေရန် အလင်းရောင်များကို လုံလောက်စွာထားရှိခြင်း။ အလုပ်သမားများအတွက်တစ်ကိုယ်ရေကာကွယ်ရေးသုံးပစ္စည်းများဖြစ်သည့် နားကြပ်၊ လက်အိတ်၊ ဦးထုပ်၊ မျက်မှန်များ အသုံးပြုစေခြင်း။ လျှပ်စစ်အန္တရာယ်မဖြစ်စေရန် နှင့် ပြုပြင်ထိန်းသိမ်းမှုများ ပြုလုပ်ရန်အတွက် ဝန်ထမ်းထားရှိ၍ ပုံမှန်စစ်ဆေးခြင်း။
ကျန်းမာရေး	<ul style="list-style-type: none"> အရေးပေါ် မီးစက်များမှ ဆူညံသံများထွက်ပေါ်လာခြင်း။ 	<ul style="list-style-type: none"> လုပ်သားများအတွက်ကျန်းမာရေးမထိခိုက်စေရန် ရေမြောင်းများကိုစနစ်တကျထားရှိခြင်း။ လုပ်သားများအတွက် ရှုပ်နာရီအတွင်းလက်ခံနိုင်သည့်အာမြင့်ဆုံး ဆူညံမှု နှုန်းမှာ 90dB(A) ဖြစ်သည်။ အသံဆူညံမှုအမြင့်ဆုံးနေရာများတွင် နားကြပ်များ တပ်ဆင်စေခြင်း။
စွန့်ပစ်အပိုင်အခဲ	<ul style="list-style-type: none"> ထုတ်လုပ်ရာတွင် ကျန်ရှိသော ပိတ်စ အပိုင်းအစများ။ မီးဖိုချောင်နှင့် ရုံးတွင်းစွန့်ပစ်ပစ္စည်းများ 	<ul style="list-style-type: none"> စက်ရုံအတွင်း အမှိုက်ပုံးများထားရှိခြင်း။ သတ်မှတ်ထားသောနေရာတွင် အမှိုက်စို၊ အမှိုက်ခြောက်များခွဲခြားစွန့်ပစ်ခြင်း။ အမှိုက်များကို ရန်ကုန်စည်ပင်သာယာရေးကော်မတီနှင့် ချိတ်ဆက်၍စွန့်ပစ်ခြင်း။
စွန့်ပစ်အရည်	<ul style="list-style-type: none"> နေအိမ်၊ စားသောက်ဆောင် တို့မှစွန့်ထုတ်ရေ၊ ဘွိုင်လာစွန့်ပစ်ရေ နှင့် မိလ္လာကန်စနစ် 	<ul style="list-style-type: none"> ဆီကန်၊ မိလ္လာကန်များ ကိုပုံမှန်စစ်ဆေးခြင်း၊ သန့်စင်ခြင်းများပြုလုပ်ခြင်းဖြင့် စွန့်ပစ်အရည်များ စိမ့်ဝင်မှုများကိုလျော့ကျစေနိုင်ခြင်း။
အန္တရာယ်ရှိစွန့်ပစ်ပစ္စည်းများ	<ul style="list-style-type: none"> စက်များမှ ဆီယိုစိမ့်မှုများ၊ မော်တော်ယာဉ်များပြုပြင်ထိန်းသိမ်းမှုက ထွက်ရှိသည့်အမှိုက်များ 	<ul style="list-style-type: none"> အန္တရာယ်ရှိ စွန့်ပစ်ပစ္စည်းများသိုလှောင်မှု အားထိန်းသိမ်းခြင်း စစ်ဆေးခြင်း။ အန္တရာယ်ရှိစွန့်ပစ်ပစ္စည်းများကို ရန်ကုန်မြို့တော်စည်ပင်သာယာရေး ကော်မတီ (သို့မဟုတ်) လိုင်စင်ရ အမှိုက်စွန့်ပစ်ရေးဆိုင်ရာအဖွဲ့အစည်းများ (ဥပမာ DOWA or YCDC) နှင့်ချိတ်ဆက်၍စွန့်ပစ်ခြင်း။
သဘာဝဘေးအန္တရာယ် (ငလျင်၊ ရေကြီးရေလျှံ)		အရေးပေါ်အကြောင်းရင်းနှင့် အခြေအနေများအတွက်

Environmental Management Plan

ပတ်ဝန်းကျင် လက္ခဏာ	လုပ်ငန်းလုပ်ဆောင်မှု	လျော့ချရေးနှင့် ထိန်းချုပ်မှု
မြေပြို၊ မုန်တိုင်း)		သက်ဆိုင်ရာမှတ်တမ်းများနှင့် ကိရိယာများကို ထိန်းသိမ်းခြင်း

လုပ်ငန်းလည်ပတ်စဉ်ကာလတွင် သတ်မှတ်ချက်များမှာ အလယ်အလတ် သတ်မှတ်ချက် ၃ခု (အစိုင်အခဲစွန့်ပစ်ပစ္စည်း၊ မီးဘေးအန္တရာယ်၊ လုပ်ငန်းခွင်ဘေးအန္တရာယ်)၊ နိမ့် သတ်မှတ်ချက် ၃ခု (စွန့်ပစ်အရည်၊ လေထု၊ ဆူညံသံနှင့် တုန်ခါမှု) နှင့် အလွန်နိမ့်သတ်မှတ်ချက် ၅ခု (ဂေဟဗေဒ၊ ကျန်းမာရေး၊ မြေထုညစ်ညမ်းမှု၊ ရေထုညစ်ညမ်းမှု နှင့်အန္တရာယ်ရှိစွန့်ပစ်အမှိုက်) များနှင့် လုပ်ငန်းပိတ်သိမ်းစဉ်ကာလတွင် သတ်မှတ်ချက်များမှာ အလွန်နိမ့် ၂ခု (စွန့်ပစ်အစိုင်အခဲနှင့် အန္တရာယ်ရှိစွန့်ပစ်အမှိုက်) နှင့် နိမ့်သတ်မှတ်ချက် ၅ခု (လေထုအရည်အသွေး၊ ရေထုညစ်ညမ်းမှု၊ မြေဆီလွှာညစ်ညမ်းမှု၊ ဆူညံသံနှင့် လုပ်ငန်းခွင်ဘေးအန္တရာယ်) တို့တွေ့ရှိရပြီး ၎င်းအားပုံနှင့်နှိုင်းယှဉ်ဖော်ပြထားပါသည်။



အဆိုပြုလုပ်ငန်း၏ ပတ်ဝန်းကျင်အပေါ် သက်ရောက်မှုများ နှိုင်းယှဉ်ပြပုံ

Environmental Management Plan

ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု ဆောင်ရွက်ချက်

စီမံကိန်းဖော်ဆောင်သည့် အချိန်အတွင်း ပတ်ဝန်းကျင်အပေါ် သက်ရောက်မှုများ၊ လျော့ချရေး နည်းလမ်းများ၊ အစီအစဉ်များ၊ တိုင်းတာမှုများ စသည့် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်များကို လုပ်ဆောင်ရပါသည်။ Jiangsu Soho (Myanmar) Garment Company Limited မှ စက်ရုံတွင် ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်အတွက် အဖွဲ့အစည်းဖွဲ့စည်းခြင်း၊ ပုံမှန်ဆန်းစစ်လေ့လာခြင်းများ ပြုလုပ်သွားမည်ဖြစ်ပါသည်။ ပတ်ဝန်းကျင် လေထုအရည်အသွေး၊ မိလ္လာစနစ်၊ စွန့်ပစ်အပိုင်အခဲ စွန့်ပစ်မှုများကို စက်ရုံ၏ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် အဖွဲ့အစည်းမှ ဆန်းစစ်သွားမည်ဖြစ်ပါသည်။ အဆိုပြုစီမံကိန်းမှ လူထုအကျိုးပြုလုပ်ငန်းများ နှင့် အရေးပေါ်ဆောင်ရွက်ချက်များ၊ ဒေသဆိုင်ရာ အကျိုးပြုလုပ်ငန်းများကို လုပ်ဆောင်သွားမည်ဖြစ်ပါသည်။ အဆိုပြုစီမံကိန်းသည် ရရှိလာသော အကျိုးအမြတ်၏ ၂% ကို လူမှုဖူလုံရေးလုပ်ငန်းများတွင် သုံးစွဲသွားမည် ဖြစ်ပါသည်။

Jiangsu Soho (Myanmar) Garment Company Limited ၏ လူထုအကျိုးပြုလုပ်ငန်းများဆောင်ရွက်မည့် အစီအစဉ်

စဉ်	အကြောင်းအရာ	လှူဒါန်းမှု ရာခိုင်နှုန်း
၁။	စာသင်ကျောင်းများ	၀.၅%
၂။	သင်တန်းကျောင်းများ	၁%
၃။	ဝန်ထမ်းများ၏ ကျန်းမာရေးစောင့်ရှောက်မှု	၀.၅%

စက်ရုံအတွက် သဘာဝပတ်ဝန်းကျင်ဆိုင်ရာလုပ်ဆောင်ချက်များသည် စက်ရုံသို့ကွင်းဆင်းလေ့လာခဲ့သော ကျွမ်းကျင်ပညာရှင်များမှ စက်ရုံ၏ဆောင်ရွက်ချက်များ၊ စက်ရုံပန်ထမ်းများ၊ နယ်ပယ်ဆိုင်ရာအဖွဲ့အစည်းများ၏ အမြင်များ နှင့် စက်ရုံမှ သက်ဆိုင်သူများ၏တိုင်ပင်ဆွေးနွေးအကြံပြုချက်များအပေါ် အခြေခံ၍ ရေးဆွဲပြင်ဆင်ထားပါသည်။ ဖြစ်နိုင်ချေရှိသော ပတ်ဝန်းကျင်ထိခိုက်မှုများအပေါ် မူတည်၍ လိုအပ်သည့် သဘာဝပတ်ဝန်းကျင်ဆိုင်ရာ စီမံခန့်ခွဲမှုလုပ်ဆောင်ချက်များမှာ အောက်ပါအတိုင်းဖြစ်ပါသည်။

၁။ လေထုညစ်ညမ်းမှုနှင့် ဖုန်မှုန့်ဆိုင်ရာ စီမံခန့်ခွဲမှုအစီအစဉ်

၂။ ဆူညံသံဆိုင်ရာ စီမံခန့်ခွဲမှုအစီအစဉ်

၃။ မီးဘေးအန္တရာယ် စီမံခန့်ခွဲမှုအစီအစဉ်

၄။ လုပ်ငန်းခွင်ဘေးအန္တရာယ်ကင်းရှင်းရေးနှင့် ကျန်းမာရေးဆိုင်ရာ စီမံခန့်ခွဲမှုအစီအစဉ်

၅။ အပိုင်အခဲစွန့်ပစ်ပစ္စည်း စီမံခန့်ခွဲမှုအစီအစဉ်

၆။ စွန့်ပစ်အရည် (ရေဆိုး) စီမံခန့်ခွဲမှုအစီအစဉ်

Environmental Management Plan

၇။ အန္တရာယ်ရှိ စွန့်ပစ်ပစ္စည်း စီမံခန့်ခွဲမှုအစီအစဉ်

၈။ အရေးပေါ်အခြေအနေဆိုင်ရာ စီမံခန့်ခွဲမှုအစီအစဉ်

၉။ အရေးပေါ်တုံ့ပြန်မှုနှင့် သဘာဝဘေးအန္တရာယ်စီမံခန့်ခွဲမှုအစီအစဉ်

၁၀။ သဘာဝပတ်ဝန်းကျင်ဆိုင်ရာ စောင့်ကြပ်ကြည့်ရှုခြင်းနှင့် အစီရင်ခံခြင်း

၁၁။ သင်ကြားပို့ချမှု အစီအစဉ်

သက်ဆိုင်သူများနှင့် တွေ့ဆုံဆွေးနွေးခြင်း

သက်ဆိုင်သူများနှင့် တွေ့ဆုံဆွေးနွေးခြင်း အစီအစဉ်တွင် စက်ရုံ၏ EMP အစီရင်ခံစာ အကြောင်းကို ရှင်းလင်းတင်ပြခြင်းဖြစ်သည်။ တွေ့ဆုံပွဲကို နိုင်ငံရေးကြောင့်လည်းကောင်း ကျန်းမာရေးဆိုင်ရာ Covid - 19 စည်းကမ်းချက်များကြောင့် ၈ ရက်၊ မတ်လ၊ ၂၀၂၂ ခုနှစ်တွင် လူမှုကွန်ယက်မှပင် ကြေငြာခြင်းပြုလုပ်ခဲ့သည်။ အဆိုပါထုတ်ပြန်ကြေငြာခြင်းတွင် အဆိုပြုစက်ရုံဆိုင်ရာ အချက်အလက်များ၊ ပတ်သက်သည်များ အကျဉ်းချုပ်ပြီး တင်ပြထားပါသည်။ အဆိုပြုစီမံကိန်း၏ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် အစီရင်ခံစာ အကျဉ်းချုပ်ကို ဤ https://drive.google.com/file/d/15Y3x15zy3kirSnuIMSDKGj1qX_NrQII/view?usp=drivesdk တွင် အသေးစိတ်ဝင်ရောက်ဖတ်ရှုနိုင်ပါသည်။

နိဂုံးနှင့် အကြံပြုချက်

အကျဉ်းချုပ်အားဖြင့် ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်၏ လမ်းညွှန်ချက်များ၊ ပတ်ဝန်းကျင်ဆိုင်ရာ ဥပဒေ၊ နည်းဥပဒေ၊ စည်းမျဉ်းစည်းကမ်းများနှင့် ချမှတ်ထားသော မူဝါဒလမ်းညွှန်ချက်များအတိုင်း ပတ်ဝန်းကျင်ဆိုင်ရာ စီမံခန့်ခွဲမှု အလေ့အကျင့်များ၊ လုပ်ငန်းစဉ်များနှင့် လိုက်နာဆောင်ရွက်ကျင့်သုံးရန်တာဝန်များကို ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်တွင် ဖော်ပြရှင်းလင်းတင်ပြထားပါသည်။ စီမံကိန်းနှင့် သက်ဆိုင်သူများအား စီမံကိန်းဆိုင်ရာ အကြောင်းအရာများ ရှင်းလင်းတင်ပြခြင်း၊ အကြံပြုချက်များနှင့် ဆွေးနွေးတင်ပြလာသည့် သဘောထား အကြံဉာဏ်များကိုရယူပြီး အစီအရင်ခံစာတွင် ဖော်ပြထားပါသည်။

အကြံပြုချက်များအရ-

- အစီရင်ခံစာတွင် ဖော်ပြထားသည့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ်နှင့် ကတိကဝတ်များကို စီမံကိန်း၏ သက်တမ်းတလျှောက်တွင် အကောင်အထည်ဖော် ဆောင်ရွက်ရမည်။
- အစီအစဉ်နှင့် အရည် စွန့်ပစ်ပစ္စည်းများကို ရန်ကုန်မြို့တော် စည်ပင်သာယာရေးကော်မတီ၏ စည်းကမ်းများအတိုင်း စွန့်ပစ်ရမည်။
- အလုပ်သမားများအား သင့်တော်သော သင်တန်းများပေးခြင်း၊ လုပ်ငန်းခွင်အတွင်း တစ်ကိုယ်ရည် ကာကွယ်ရေး ပစ္စည်းများ အသုံးပြုစေခြင်းများ ဆောင်ရွက်ရမည်။

Environmental Management Plan

- ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ်များကို နေ့စဉ်၊ လစဉ်နှင့် နှစ်စဉ် လုပ်ငန်းခွင်အတွင်း လုပ်ဆောင်ရမည်။
- ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုအစီအစဉ် မှတ်တမ်းများကို သေချာသိမ်းဆည်း၍ တတိယအဖွဲ့အစည်း သို့ တင်ပြရမည်။
- ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော်၏ လမ်းညွှန်ချက်များ၊ ပတ်ဝန်းကျင်ဆိုင်ရာ ဥပဒေ၊ နည်းဥပဒေ၊ စည်းမျဉ်းစည်းကမ်းများနှင့် ချမှတ်ထားသော မူဝါဒ လမ်းညွှန်ချက်များအတိုင်း ပတ်ဝန်းကျင်ဆိုင်ရာ စီမံခန့်ခွဲမှု အလေ့အကျင့်များ၊ လုပ်ငန်းစဉ်များနှင့် လိုက်နာဆောင်ရွက်ရမည်။

အချုပ်အားဖြင့်ဆိုသော် အဆိုပြုသူသည် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဦးစီးဌာနမှ ညွှန်ကြားလာသော အဆိုပြုချက်များ၊ အကြံပြုချက်များကို လိုက်နာဆောင်ရွက်ရမည်။ ထိရောက်သော ပတ်ဝန်းကျင်ဆိုင်ရာ စီမံခန့်ခွဲမှုကို အဆိုပြုသူမှ ဆောင်ရွက်ရမည်။ အဆိုပြုသူသည် ပြည်ထောင်စုသမ္မတ မြန်မာနိုင်ငံတော်၏ လမ်းညွှန်ချက်များ၊ ပတ်ဝန်းကျင်ဆိုင်ရာ ဥပဒေ၊ နည်းဥပဒေ၊ စည်းမျဉ်းစည်းကမ်းများနှင့် ချမှတ်ထားသော မူဝါဒ လမ်းညွှန်ချက်များအတိုင်း လိုက်နာဆောင်ရွက်ရမည်။

EXECUTIVE SUMMARY

Introduction

Everyone wants to live in a place that's clean and healthy. That is why one of the world's primary concerns is the environment. As sad as it is, the world today is dying. The environment is slowly decaying, and it's all because of human negligence. Environment Management Plan is required for ensuring sustainable development. It should not affect the surrounding environment adversely. The management plan presented. Which needs to be implemented by the proposed expansion of Jiangsu Soho (Myanmar) Garment Company Limited. The Environment 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 project is new investment for manufacturing of garment on CMP Basis company from China. Yangon Region Investment Committee (YRIC) issued the project on 20 February 2020 with the Endorsement No. (YGN-352/2020). YRIC notified 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 Jiangsu Soho (Myanmar) Garment Company Limited as a solely owned foreign investment from the 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 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 of Notification No. Yaka/ EIA/ 2(1) (097/2022) on 13 January 2022. Therefore, Jiangsu Soho (Myanmar) Garment Company Limited commissioned Myanwei Environmental Solutions Company Limited for EMP report study.

Information of Investor

Investor Name:	Mr. Huang Tianshu
ID No.:	G49037241
Citizenship:	Chinese
Address of Registration office:	No.48, Ruan Jian Road, Yu Hua, Nan Jing, Jiangsu Province, China
Phone No.	09-43135068

Salient Features of the Proposed Project

Type of Proposed Business	Manufacturing of Garment on CMP Basis
Type of investment	100% foreign investment
Type of Share	Ordinary Share
Type of land	Industrial Land

Environmental Management Plan

Total land area	1.252 acres (5066.6642 sqm)
Total building area	(200 ft. x 200 ft.) 2 Storey Factory Building
Land lease year	30 years
Construction period	1 years
Address	Plot No. 88, Myay Taing Block No. 64 (Sethmu), Shwe Pyi Thar Industrial Zone (3), Shwe Pyi Thar Township, Yangon Region.
Contact person	Daw Thiri Yu Wai 09-450539243 Thiriyuwai0209@gmail.com

Includes the scope of the study of proposed project, EMP study objective and responsibility of EMP expert team of Myanwei Environmental Solutions Company Limited and described about of objective of Environmental Management Plan.

Policy, Legal and Institutional Framework

The brief summary of relevant national environmental legislations such as Environmental Impact Assessment Procedure (2015) and National Environmental Quality (emission) Guidelines, established by the Ministry of Natural Resources and Environmental Conservation (MONREC) and overview of current local and international environmental and social policies including related international or regional convention for the proposed project. These are as follow:

1. Constitution 2008
2. Environmental Conservation Law, 30 March 2012
3. Environmental Conservation Rules, 2014
4. Environmental Impact Assessment Procedure (December 2015)
5. National Environmental Quality (Emission) Guideline (NEQG) (December 2015)
6. National Environmental Policy of Myanmar (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. Yangon City Development Committee Law (2018)
13. The Amended Law for Factories Act, 1951 (2016)
14. The Private Industrial Enterprise Law, 1990
15. The Export and Import Law (2012)
16. The Prevention of Hazard from Chemical and Related Substances Law, 2013
17. Underground Water Act

Environmental Management Plan

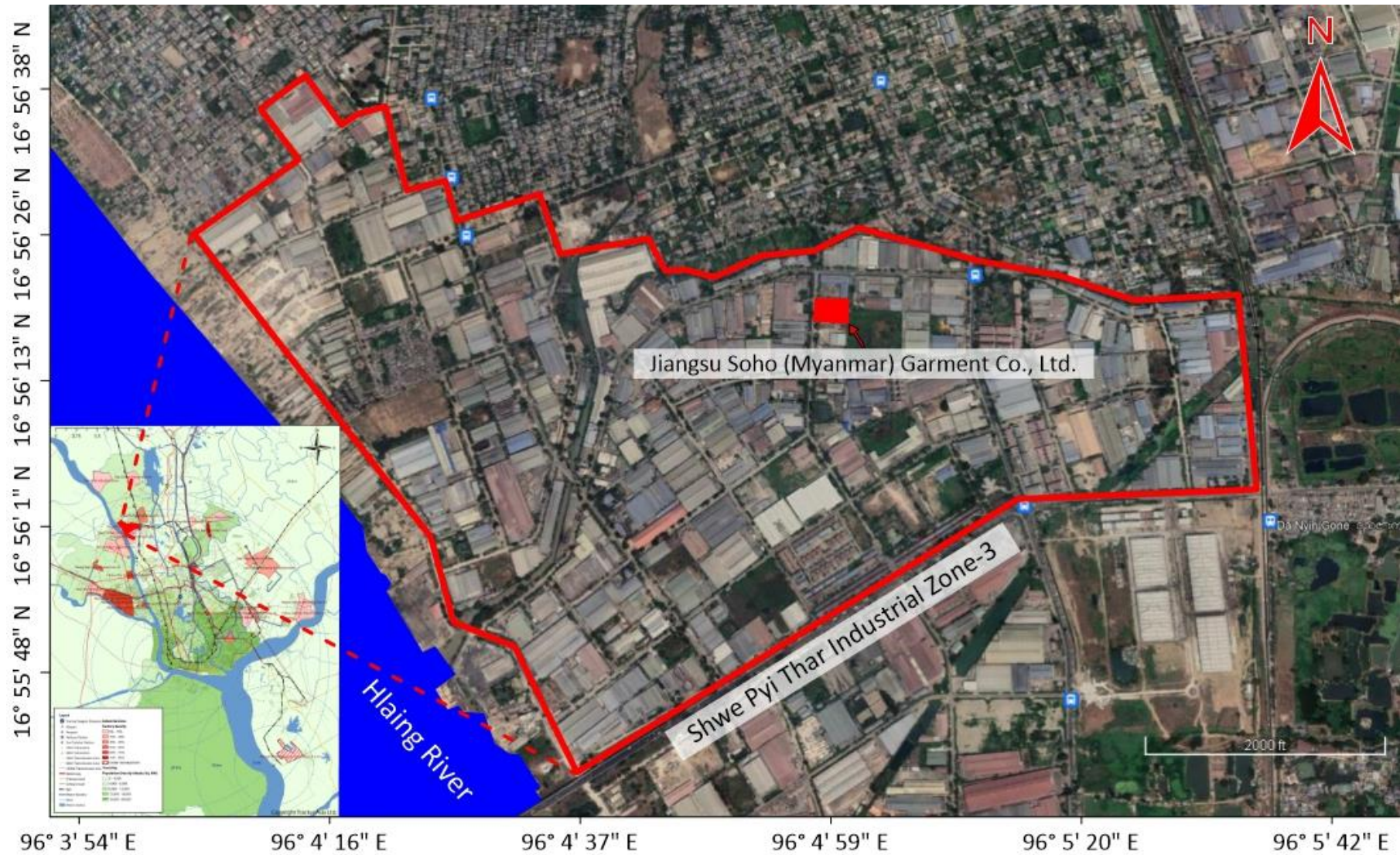
18. Myanmar Fire Brigade Law (2015)
19. The Electricity Law (2014)
20. Boiler Law (2015)
21. Labor Dispute Settlement Law (28 March 2012 replacing 1929 version)
22. The Social Security Law (2012)
23. The Employment and Skill Development (2013)
24. The Worker's Compensation Act, 1923
25. The Payment of Wages Act, 1936
26. The Leave and Holidays Act, (1951, partially revised in 2014)
27. The Minimum Wage Law (2013)
28. Public Health Law (1972)
29. Prevention and Control of Communicable Disease Law 1995 (Amendment in 2011)
30. Occupational Safety and Health Law (2019)
31. The Law on Standardization
32. လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတက်သောဝတ္ထုပစ္စည်းများဆိုင်ရာဥပဒေ (၂၀၁၈)
33. The Motor Vehicles Law (2015)
34. The Conservation of Water Resources and River Law (2006)
35. The Commercial Tax Law (1990) Amended 2014

And occupational health and safety guideline is referenced from International Finance Corporation (IFC) guidelines. Jiangsu Soho (Myanmar) Garment Company Limited is commitment and complied for environmental prevention and EMP.

Project Description

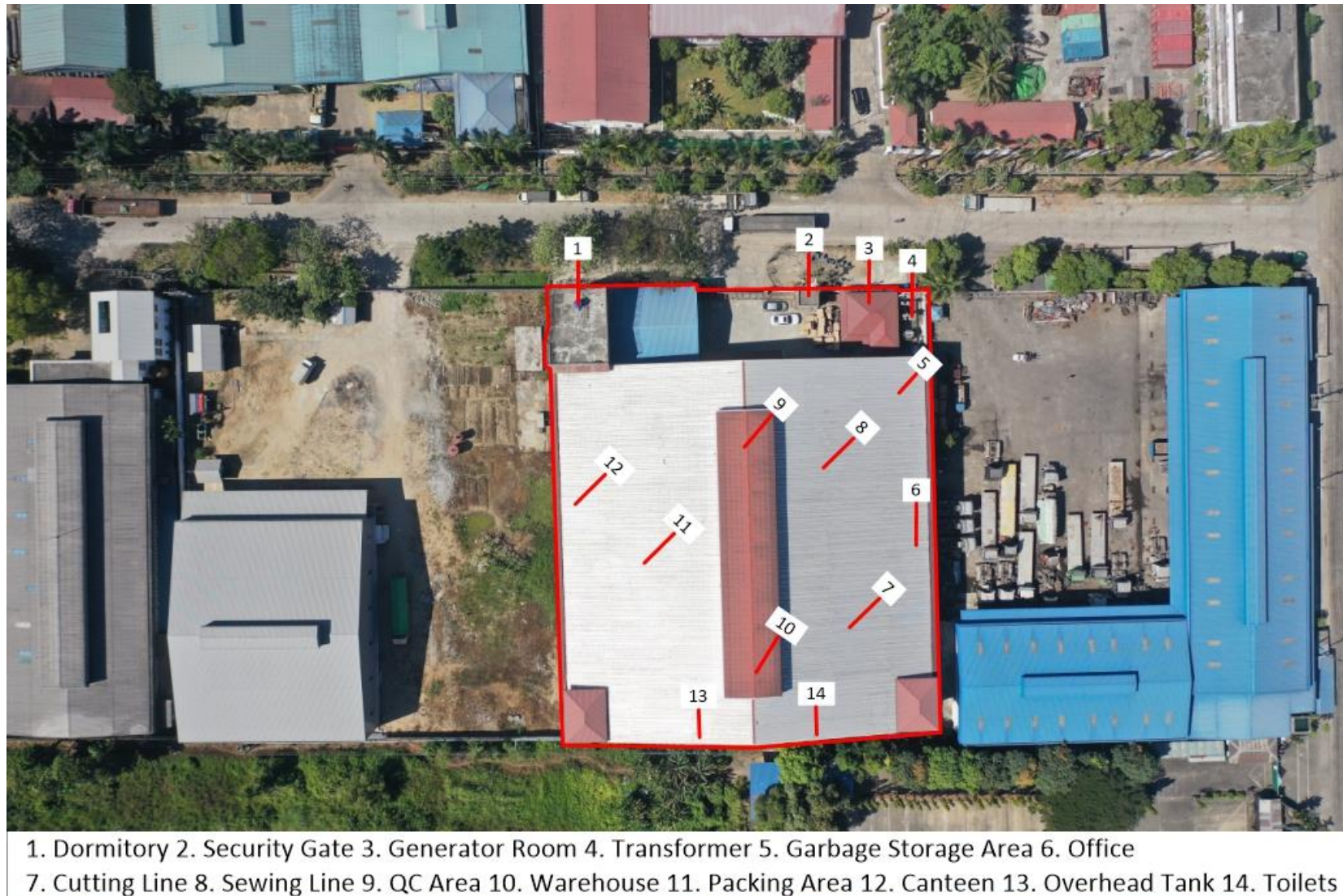
Jiangsu Soho (Myanmar) Garment Company Limited is located at Plot No. 88, Myay Taing Block No. 64 (Sethmu), Shwe Pyi Thar Township. The total area of project site is 1.252 acres (5066.6642 sqm) and build main factory buildings, dormitory, warehouse, kitchen, canteen, maintenance house, etc. which were built on its land area. Transformer room, generator room and water treatment plant are separated by main factory building structure.

Environmental Management Plan



Location Map of Proposed Project

Environmental Management Plan



Factory Layout Map

Environmental Management Plan

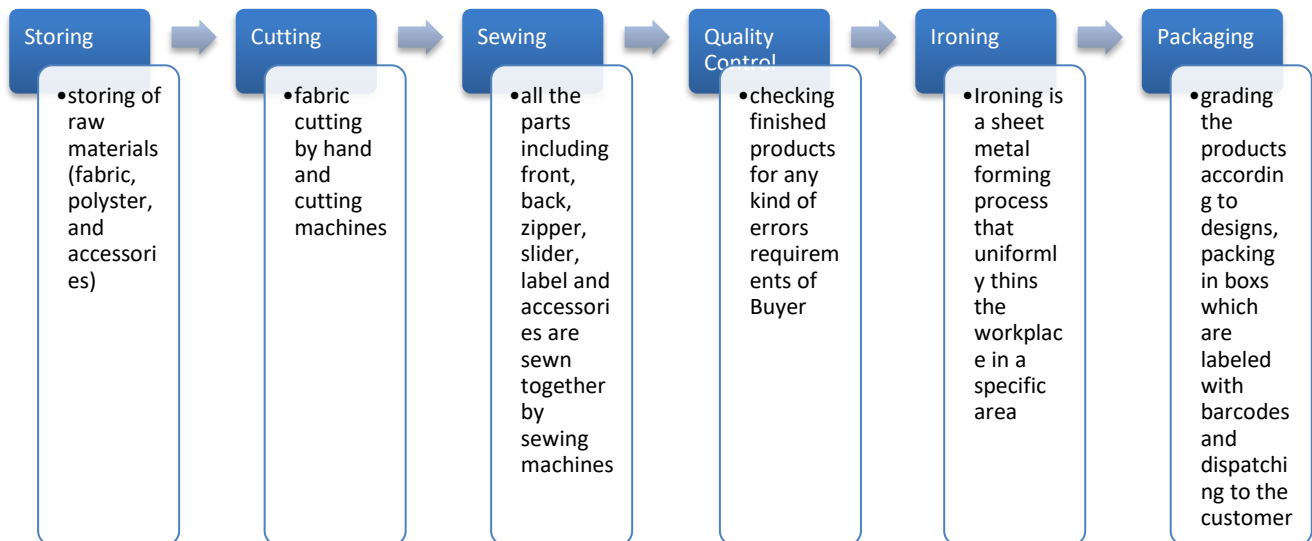


Adjacent Location Map of Proposed Project

Environmental Management Plan

The main Raw Materials are fabric, lining, polyester wadding, zipper, snap button, eyelet, sewing thread, main label, care label, size label, velcro and elastic, which imported from China, Japan, Korea, EU, UK and Mongolia.

The main product of the Jiangsu Soho (Myanmar) Garment Company Limited factory is garments. The Utilities for proposed factory include electrical power, fuel oil for emergency used generator and water for domestic use. Electric power is used for the purpose of to provide lighting.



Warehouse



Cutting Area

Environmental Management Plan



Sewing Area



Ironing Area



Finishing Area



Packing Area

Production Process

Production rate of Jiangsu Soho (Myanmar) Garment factory is produced between first year of operation and ten years operation as 1,530,000 to 4,950,000 pieces annually. It is required of work force 10 foreigner technician and 945 local employees for first year operation to 10 years operation.

Environmental Management Plan



Product Photos

Brief Description of Surrounding Environment

For environmental baseline, data were collected by onsite measurements analysis during operation phase on 7 January 2022. On-site measurement was taken by indoor temperature, humidity, noise level and operation light condition at the factory. Moreover, secondary data collection of proposed project site area such as socio-economic condition, physical/ biological environment, weather data were collected from official township data was obtained from Regional Data of Shwe Pyi Thar Township.

Survey Result in Proposed Project

Type	Result
Weather Condition	
Indoor temperature	32.44 °C
Humidity	52.94 (%)
Noise level	
Operation area	69.79 dBA
Air Quality	

Environmental Management Plan

Type	Result
PM 10	60.13 µg/m ³
PM 2.5	56.86 µg/m ³
SO ₂	171.04 µg/m ³
NO ₂	11 µg/m ³
O ₃	77.62 µg/m ³
CO	0.34 µg/m ³
Light	
Cutting Area	632 Lux
Warehouse	67.2 Lux
Quality Control	953 Lux
Sewing Area	746 Lux
Packaging	898 Lux

Risk Assessment and Mitigation Measure Plan

The development of infrastructure for the proposed project likely to happen changes in the local environment in terms of physical, biological and socio-economic aspects along with the perspective on both positive and negative impacts. The potential environmental impacts brought by various activities of proposed factory project will be identified and judged by site surveying with checklist, meeting with client team, including plant manager and supervisor, representatives from the factory operators and assessing the environmental baseline information for operation and decommissioning phases along with its mitigation measure.

Impact Assessment Parameter and Its Skill

Assessment	Scale				
	1	2	3	4	5
Magnitude (M)	Insignificant	small and will have no effect on working environment	Moderate and will result in minor changes on working environment	High and will result in significant changes on working environment	Very high and will result in permanent changes on working environment
Duration (D)	0 - 1 year	2 - 5 year	6 - 15 year	Life of operation	Post Closure
Extent (E)	Limited to the site	Limited to the local area	Limited to the region	National	International
Probability (P)	Very improbable	Improbable	Probable	Highly probable	Definite

Then, the Significant Point (SP) calculated by following formula.

$$\text{Significant Point (SP)} = (\text{Magnitude} + \text{Duration} + \text{Extent}) \times \text{Probability}$$

Environmental Management Plan

Impact Significance: Based on calculated significant point, impact significance can categorize as follows:

Significant Point (SP)	Impact Significance
<15	Very Low
15-29	Low
30-44	Moderate
45-59	High
60	Very high

Environmental Impact	Project Activities	Mitigation Measures
Operation Phase		
Air	Dust and GHGs emission from vehicles used for transporting raw materials and final products Emission of smoke from emergency diesel generator and vehicle movement	To control air pollution, the vehicles, generators and machineries have to check and maintain regularly. Ensuring vehicles, compressor and generator are well maintained. The factory has planted trees to reduce carbon emission and minimize air pollution
Soil	Engine oil leaks, spills at diesel storage and during fuel refueling	No mitigation measure
Water	Dormitory Cleaning and Kitchen	No mitigation measure
Noise and vibration	Generating noise from the production machinery	Should be built individual room like as generator room Low noise equipment should be used Should be provided the noise covering equipment or personal protective equipment (PPE)
Flora and fauna on terrestrial and aquatic life	Operation of the garment factory	No Mitigation Measure
Fire	Poor electrical installations Waste disposed area raw materials and chemical storage	To provide fire extinguishers, fire hose reels and fire hydrants on the walls of the factory for fire emergency cases. Regular inspection for existing firefighting equipment must be done. In case of fire emergency, water storage tank for fire frightening. The emergency fire alarms are installed at the factory for alerting the workers in case of fire. The main entrances and route for emergency cases of the factory must not be blocked with materials or machines for fire emergency cases.
Occupational Safety	Accidental cases cause by operating machines.	First aid training, safety training, firefighting training or other essential training for machinery handling

Environmental Management Plan

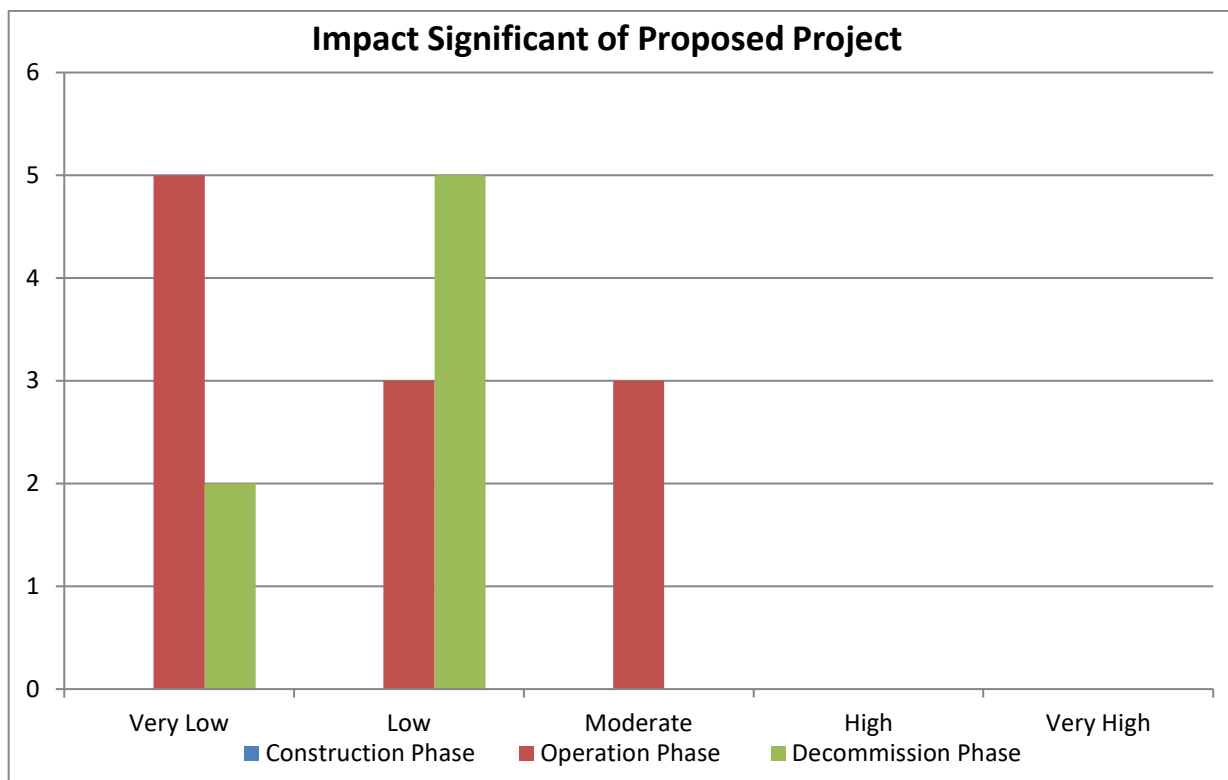
Environmental Impact	Project Activities	Mitigation Measures
	Unloading, cutting, and packaging activities. Accidental cases of thermic fluid heater	must be provided for emergency cases of workers. According to the observed light intensity values, the proponent provides sufficient lighting for workers for safe working and reducing optical problems of the workers. Personal Protective Equipment (PPEs) like earmuffs, safety gloves, helmets and goggles are provided for each department. To prevent electric shock hazards, electrical maintenance staff (handyman) is to be assigned to do regular inspections and take preventive measures.
Health	Influx of people Noise from the generating of the emergency generators	Manage the drainage systems of the factory to prevent health risk of the workers. The maximum allowable noise level for workers is 90dB(A) for 8hours exposure a day. Thus, adequate protective noise impact measures in the form of ear muffs/ear plugs to the workers working in high noise areas.
Solid waste	Residual pieces of fabric scraps from the production lines Waste from packaging materials Waste from kitchen, dormitory and office.	Provides separate garbage bins at each building. All of the solid wastes will be collected separately in garbage based on their types and stored in relevant separated waste storage area Final wastes should be disposed by using YCDC's service.
Liquid waste	Septic system and sewage. Domestic liquid waste disposal from office, kitchen and dormitory.	Regular inspection and cleaning, oil traps, septic tank and adequate covers for all storage and waste disposal areas can decrease these contaminations.
Hazardous waste	Used oil and lubricant discharged from the maintenance of vehicles and machines.	Proper inspection and maintenance in storage of hazardous waste. The hazardous wastes are transported by specially licensed carriers and disposed in a licensed facility (e.g., DOWA and YCDC)
Natural Disaster (Earthquakes, Floods, landslides and cyclone)		Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the emergency
Decommissioning Phase		
Air pollution	Decommissioning of buildings and related materials Transportation of demolished materials	Spray water twice a day Cover mesh trap around the decommission area Install shading net about 2 meters above temporary fence of decommission area Carry broken material with cover by canvas.
Water pollution	Sewage form decommissioning	Systematically demolish the septic tanks.

Environmental Management Plan

Environmental Impact	Project Activities	Mitigation Measures
	workers Demolition machinery equipment	
Soil Contamination	Decommissioning of buildings and related materials Transportation of demolished materials	Manage the spillage of oil and diesel and sewage.
Noise Pollution	Decommission activities Transportation of demolished materials	Carry out the activities during day time. Maintain the machines and vehicles to reduce noise pollution. Provide the ear plugs to the workers.
Waste disposal	Demolished debris such as bricks, concrete materials	Recyclable materials and dispose to the define areas.
Hazardous waste	Used lubricants from decommissioning vehicles and machines	Manage the disposal way of hazardous waste.
Occupational Health and Safety (Accidents, Injuries)	Decommissioning activities Transportation of demolished materials	Provide protective fencing or demarcation with tape at the boundaries of dangerous / hazardous zone and the appropriate warning signs, marking and safety signs and installation of the lost time injury notice board. Clean up excessive waste debris and liquid spills regularly. Use the third-party expert assisted by trained personnel to identify and remove hazardous materials.

The assessment of each impact is based on consideration of the magnitude, duration, extent and probability of activities, which are going to be carried out during operation phases. In operation phase, there are 3 moderate significance impact on human and waste generation (Fire, occupational safety and solid waste). 3 low significant impacts on environmental resources and waste (air, noise, vibration and liquid waste). 5 very low significant impact on environmental resources, ecological, human and waste generation (soil, water pollution, flora, fauna, health and hazardous waste). In decommissioning phase 2 very low significant impact on environment and human (waste disposal and hazardous waste). 5 low significant impacts on environmental and human (air, water pollution, soil contamination, noise and vibration and occupational health and safety). Significance impacts on environmental and human and detail impact assessment for operation phases and decommissioning can be seen in above tables. All the impacts during operation phases and decommissioning phase can be minimized by using mitigation measures and implementing Environmental Management Plan.

Environmental Management Plan



Comparison of Impact Significant of Proposed Project

Environmental Management Action

The Environmental Management Plan (EMP) formulated with the anticipated impacts, mitigation measures, management and monitoring plans during all phases are implemented. Jiangsu Soho (Myanmar) Garment Company Limited has organized Environmental Management Team to accomplish these plans and to review EMP regularly for improvements and modifications. Ambient air quality, noise, water quality, sewage and solid waste disposal are monitored by Team Leaders of Committee. The project proponent has performed Corporate Social Responsibility (CSR) plan and Emergency Preparedness for the benefits of residents and local community. Jiangsu Soho (Myanmar) Garment Company Limited will contribute 2% of our Net Profit to social welfare activities that will help society and country of Myanmar.

CSR plan of Jiangsu Soho (Myanmar) Garment Company Limited

No	Particle	Contribution
1	Public school	0.5%
2	Non-profit training	1
3	Employee healthcare	0.5%

The environmental management action for the factory 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 action based upon the potential impacts of activities:

Environmental Management Plan

1. Air pollution/Dust Management plan
2. Noise Management Plan
3. Fire Management Plan
4. Occupational Safety and Health Management Plan
5. Solid Waste Management plan
6. Liquid Waste Management Plan
7. Hazardous Waste Management Plan
8. Energy Management plan
9. Emergency Response and Disaster Management Plan
10. Environmental Monitoring Schedule and Reporting
11. Capacity Building and Training Plan

Public Consulting

Public consultation meeting for Jiangsu Soho (Myanmar) Garment Company Limited celebrated on social media. During the preparation of this report, the COVID-19 becomes serious in Yangon. The Ministry of Health and Support declared to avoid gathering more than 5 people by closely contacting and to prevent spreading of disease. Thus, the present condition, the project's environmental condition and the management plans are through the social media of Myanwei Environmental Solution Company Limited Facebook page

https://drive.google.com/file/d/15Y3x15zy3kirSnulMSDKGj1qX_NrQII/view?usp=drivesdk

declared on 8th March 2022. The suggestions, complains and comments from the public, organization and stakeholder are warmly welcome and accept via mailing, comment, telephoning and messengers.

Conclusion and 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 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.

This is recommended that;

- All appropriate environmental management measures detailed in this report, together with any other environmental management commitments should be implemented throughout the entire life of the factory
- Solid wastes 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.

Environmental Management Plan

- 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 Republic of the Union of Myanmar.

1. INTRODUCTION

Environment Management Plan is required for ensuring sustainable development. It should not affect the surrounding environment adversely. The management plan presented in this chapter needs to be implemented by the proposed expansion of Jiangsu Soho (Myanmar) Garment Company Limited. The Environment 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.

1.1. AIM OF ENVIRONMENTAL MANAGEMENT PLAN

- Provide environmental management plan that minimize the environmental impact of the works and identify those responsible for its implementation.
- Define the monitoring program, which assess the implementation.

1.2. OBJECTIVE OF ENVIRONMENTAL MANAGEMENT PLAN

An Environment 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 this 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.

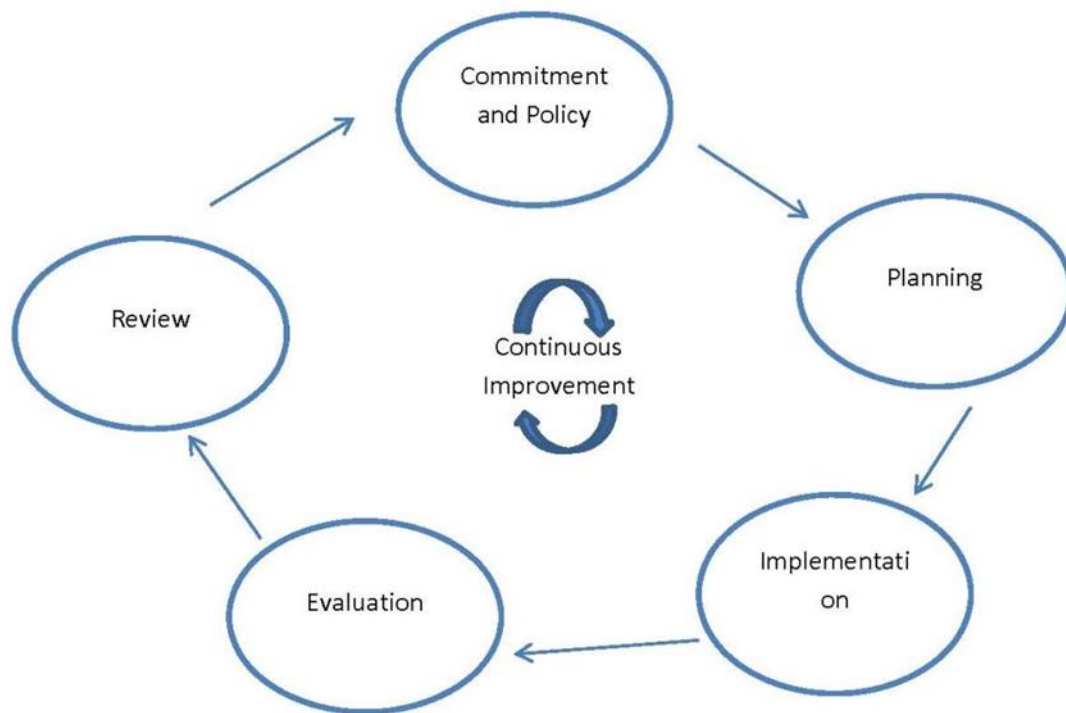


Figure 1-1 Continuous Improvement Circle

- **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 environment. 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 (e.g., minimize use of chemical X). A target is a detailed, quantified requirement that arises from the objectives (e.g., reduce use of chemical X by 25% by September 1998). The final part of the planning stage is devising an action plan for meeting the targets. This includes designating responsibilities, establishing a schedule, and outlining clearly defined steps to meet the targets.
- **Implementation** – An organization follows through with the action plan using the necessary resources (human, financial, etc.). An important component is employee training and awareness for all employees. Other steps in the implementation stage include documentation, following operating procedures, and setting up internal and external communication lines.
- **Evaluation** – A company monitors its operations to evaluate whether targets are being met. If not, the company takes corrective action.

Environmental Management Plan

- **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.

1.2.1. Institutional Requirement

Jiangsu Soho (Myanmar) Garment Company Limited will manage the development of the proposed project. The project proponent should appoint Health, Safety and Environment (HSE) issues throughout the duration of the project phases. HSE team is responsible for implementation and monitoring of EMP and Environmental Monitoring Plan (EMP) as well as coordination with local authorities and the nearby communities. The HSE Team also makes regular review of EMP to cover all potential impacts, amendments and modifications.

1.2.2. Responsibilities of the EMP

In order to ensure the sound development and effective implementation of the EMP, it will be necessary to identify and define the responsibilities. The environmental management practices, procedures, and responsibilities are defined herein to get full compliance with the existing environmental policy, laws, rules and regulations of the Republic of the Union of Myanmar. The following entities should be involved in the implementation of this EMP:

Jiangsu Soho (Myanmar) Garment Company Limited: The proponent will be charged with the responsibility for ensuring that the proposed development has been accomplished in an environmentally sound manner. This can be achieved by inclusion of environmental specifications in the tender specifications, selection of environmentally conscious contractors, and supervision to ensure that the objectives of this EMP are met. The implementation of Environmental Management Plan (EMP) process will prepare and follow up by appointed persons for health, safety, and environmental management under the instruction of management team of Jiangsu Soho (Myanmar) Garment Company Limited for EMP implementation facilities.

ECD (Yangon Region): The responsibility of ECD is to exercise general supervision and coordinating over all matters relating to the environment and to be instrumental in providing guidance for recognized regulatory frameworks.

Third-Party Environmental Consultant: The environmental consultant will have to ensure that the proposed EMP is up to date and is being followed properly by the proponent. Periodic audits of the EMP will have to be done to ensure that its performance is as expected, by comparing with operating standards so that any corrective actions can be taken.

1.2.3. Structure and Responsibilities for the EMP Development and Implementation

The HSE officer is responsible to the HSE components of the project and on matters relating to the implementation of the EMP throughout operation life. The S&E officer will have responsibilities that include:

- Ensure a monitoring system is in place to track and report all health, safety and environmental incidents;
- Carry out a thorough initial site inspection of environmental controls prior to work commencement;

Environmental Management Plan

- Record and provide a written report to the General Manager and production team of non-conformances with the EMP and require the HR supervisor to undertake mitigation measures to avoid or minimize any adverse impacts on environment or report required changes to the EMP.

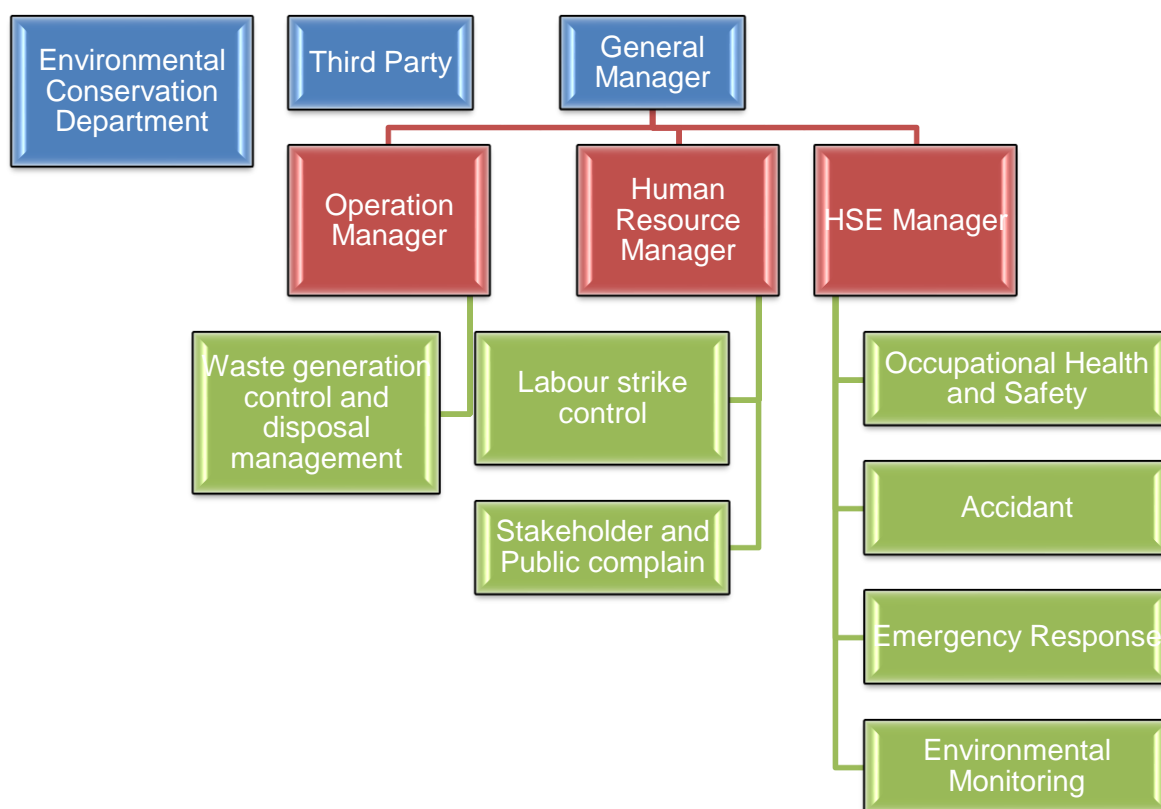


Figure 1-2 Organization Structure of Environmental Management Plan

Table 1-1 Responsibilities of HSE Members

Roles	Responsibilities
General Manager	<p>The General Manager will be assisted by the Operations Manager and also the HR and HSE Officer. In terms of environmental protection commitments, the Operation Manager will be the key driving force and will be responsible for:</p> <ul style="list-style-type: none"> • Establishing overall environmental direction and policy • Ensuring the implementation of the EMP • Ensuring investigation of all environmental incidents are reviewed and that reports are submitted on time • Ensuring an effective system of internal and external communication is in place • Providing advice regarding the environmental program
Operation Manager	<p>The Operation Manager will assist the General Manager in looking into the overall environmental matters during the operational phase of the Project. The Operation Engineer will also be responsible for:</p> <ul style="list-style-type: none"> • Adherence to the overall environmental direction and policy • Ensuring the implementation of the recommended actions in the investigation of all environmental incidents • Managing resources for operation wastes
HR Manager	<p>The HR Manager will carry out the day-to-day management of workers and social issues in the</p>

Environmental Management Plan

Roles	Responsibilities
	factory. The HR Manager will be responsible for: <ul style="list-style-type: none"> Assisting the management in publicising and implementing corporate and local policies, objectives and programs Maintaining key environmental-related documents and information Communicating/ liaising with the local authorities on environmental issues
HSE Officer	The HSE Officer will be the key person in charge of all environmental matters pertaining to the site. The HSE Officer will be responsible for: <ul style="list-style-type: none"> Coordinating the implementation of environmental programs, including monitoring of the project site environmental performance Performing periodic internal environmental audits and inspections to ensure compliance with the legal environmental requirements Ensure a monitoring system is in place to track and report all health, safety and environmental incidents; Carry out a thorough initial site inspection of environmental controls prior to work commencement; Record and provide a written report to the General Manager and production team of non-conformances with the EMP and require the HR Manager to undertake mitigation measures to avoid or minimize any adverse impacts on environment or report required changes to the EMP.

1.3. PROJECT BACKGROUND

The project is new investment for manufacturing of garment on CMP basis company from China. The Yangon Region Investment Committee (YRIC) issues the project on 20 February 2020 with the Endorsement No. (YGN-352/2020). 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 Cutting, Making and Packaging (CMP) basis under the name of Jiangsu Soho (Myanmar) Garment Company Limited.

According to the Myanmar Environmental Conservation Law (2012), it requires that the proponents of every development project in the country submit either an Initial Environmental Examination (IEE) or an Environmental Impact Assessment (EIA) to Ministry of Natural Resources and Environmental Conservation (MONREC). As per the comments of Environmental Conservation Department (ECD), said project requires an Environmental Management Plan (EMP) to meet the environmental assessment requirements of Notification No. Yaka/EIA/ 2(1) (097/2022) on 13 January 2022. Therefore, Jiangsu Soho (Myanmar) Garment Company Limited commissioned Myanwei Environmental Solutions Company Limited (Myanwei) for EMP report study.

1.4. PROJECT PROPONENT PROFILE

This is the information of project proponent from the MIC's registration that is describing in below Table 1-2 and Table 1-4.

Table 1-2 Information of Investor

Investor Name:	Mr. Huang Tianshu
ID No:	G49037241
Citizenship:	Chinese

Environmental Management Plan

Address of Registration office:	No.48, Ruan Jian Road, Yu Hua, Nan Jing, Jiangsu Province, China
Phone No.	09-43135068

Table 1-3 Director List

Name of Shareholder	Citizenship	Percentage
Jiangsu Soho Silk Co., Ltd Represented by; Mr. Huang TianShu Mr. Sun Feng Mr. Ma ChangYun	Chinese Chinese Chinese	51%
Jiangsu Soho International Group Corporation Represented by; Mr. Xin Fengyong	Chinese Chinese	29 %
Tancheng Leinuo Clothing Co., Ltd. Represented by; Mr. Wen YouLei	Chinese Chinese	20%

1.4.1. Investment Plan and Salient Features of the Project

The estimated authorized capital investment is 1.200 million US Dollar. Organization chart of Jiangsu Soho (Myanmar) Garment Company Limited is presented in Figure 1-3.

Table 1-4 Salient features of the project

Type of Proposed Business	Manufacturing of Garment on CMP Basis
Type of investment	100% foreign investment
Type of Share	Ordinary Share
Type of land	Industrial Land
Total land area	1.252 acres (5066.6642 sqm)
Total building area	(200 ft. x 200 ft.) 2 Storey Factory Building
Land lease year	30 years
Construction period	1 years
Address	Plot No. 88, Myay Taing Block No. 64 (Sethmu), Shwe Pyi Thar Industrial Zone (3), Shwe Pyi Thar Township, Yangon Region.
Contact person	Daw Thiri Yu Wai 09-450539243 Thiriyuwai0209@gmail.com

Environmental Management Plan

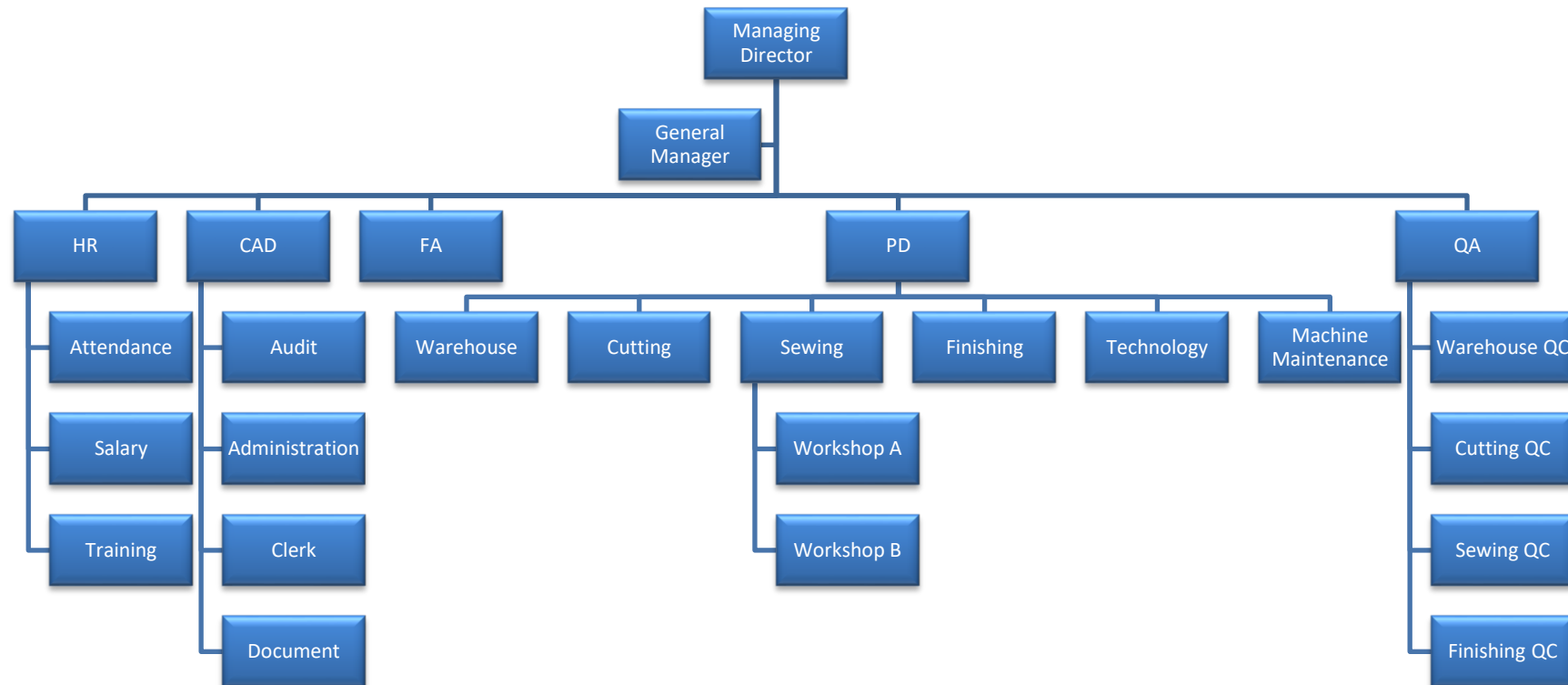


Figure 1-3 Organization chart of Jiangsu Soho (Myanmar) Garment Company Limited

Environmental Management Plan

1.5. ENVIRONMENTAL CONSULT PROFILE

Myanwei Environmental Solutions Company Limited prepares the EMP for the proposed project. 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.

Myanwei Environmental Solutions Company Limited	No. 36-38, 9 th floor (A), Grand Myay Nu Condo, Myay Nu Street, Sanchaung Township, Yangon, Myanmar.	01-501221 env@myanweiconsulting.com www.myanweiconsulting.com.
---	---	--

Table 1-5 Member of EMP Study Team

Name	Qualification	Responsibility
Myanwei Environmental Solutions Company Limited	Transition Consultant Registration Certificate No. 0069	EIA Organization
Dr. Win Aung	M.B, B.S (Yangon), M.P.H (Mahidol University, Thailand)	Public Health and Health Management Expert
Dr. Hein Lynn Aung	M.B, B.S (Yangon), Business Management (International Collage of Management Sydney, Australia)	Project Director, Public Health Consultant, Project Management
Mr. Lin Htet Sein	MSc (Regional Geology) BSc (Hons) Geology Dip in Environmental Science Certificate in Environmental & Social Assessment Certificate in Environmental Stainability TCR No. 0048	Project Director, Environmental Consultant, Project Management
Ms. Khin Thu Zar Myint	B.E(Materials and Metallurgy) Dip in Environmental Planning and Management	Senior Environmental Consultant, Social Research, Public consultation, Social Economic Investigation
Ms. Su Myat Hlaing	B.E. Civil Engineering B. Tech Civil Engineering	Environmental Engineer
Mr. Saw Yan Naung	B.E. Chemical Engineering B. Tech Chemical Engineering	Junior Environmental Consultant, Monitoring Measure, Document Administration
Mr. Myat Ko Ko	B.Sc (Hons) Geology M.Sc. Geology (Economic and Mining) Certificate of Environment Management Certificate of Geotechnical Engineering (Myanmar Geoscience Society)	Junior Environmental Consultant, Monitoring Measure, Document Administration
Mr. Htoo Nanda Aung	B.Sc (Forestry)	Junior Environmental Consultant, Monitoring Measure, Document Administration

Environmental Management Plan

Mr. Si Yan Hein	B.Sc (Geology) Certificate of Geotechnical Engineering (Myanmar Geoscience Society)	Junior Environmental Consultant, Monitoring Measure, Document Administration
Mr. Kaung Sett Lwin	B.Sc (Hons) Geology Certificate of Geotechnical Engineering (Myanmar Geoscience Society)	Junior Environmental Consultant, Monitoring Measure, Document Administration

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 FRAMWORK

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

2.1.1. Laws and Regulations Related to Environmental and Social Considerations

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

Table 2-1 List of Myanmar's Law relating to environmental management

Law and Regulation	Description
National Environmental 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 its 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 citizens rights of private 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 right 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.
Section 45	The Union shall protect and conserve natural environment.
Section 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.
Environmental 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 conversation.
Section 3	c) 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; (e) to enable to manage and implement for decrease and loss of natural resources and for enabling the sustainable use beneficially;

Environmental Management Plan

Provisions of Duties and Powers relating to the Environmental Conservation of the Ministry: Section 7	<p>(a) To specify categories and classes of hazardous wastes generated from the production and use of chemicals or other hazardous substances in carrying out industry, agriculture, mineral production, sanitation and other activities;</p> <p>(b) To prescribe categories of hazardous substances that may affect significantly at present or in the long run on the environment;</p> <p>(c) 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;</p> <p>(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;</p> <p>(m) To lay down and carry out a system of EIA and SIA as to whether or not a project or activity to be undertaken by any Government department, organization or person may cause a significant impact on the environment;</p> <p>(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.</p>
Chapter VI Environmental Quality Standards: Section10	<p>The Ministry may, with the approval of the Union Government and the Committee, stipulate the following environmental quality standards:</p> <p>(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;</p> <p>(b) water quality standards for coastal and estuarine areas;</p> <p>(c) underground water quality standards;</p> <p>(d) atmospheric quality standards;</p> <p>(e) noise and vibration standards;</p> <p>(f) emissions standards;</p> <p>(g) effluent standards;</p> <p>(h) solid wastes standards;</p> <p>(i) other environmental quality standards stipulated by the Union Government.</p>
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 stipulated environmental quality standards.
Section 15	The owner or occupier of any business, material or place 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	<p>A person or organization operating business in the industrial estate or business in the SEZ or category of business stipulated by the Ministry:</p> <p>(a) is responsible to carry out by contributing the stipulated cash or kind in the relevant combined scheme for the environmental conservation including the management and treatment of waste;</p> <p>(b) shall contribute the stipulated users' charge s or management fees for the environmental conservation according to the relevant industrial estate, SEZ and business organization;</p> <p>(c) shall comply with the directives issued for environmental conservation according to the relevant industrial estate, SEZ or business.</p>

Environmental Management Plan

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 29	The project proponent has to abide by the stipulations included in the rules, regulations, by-law, order, notification and procedure, which are issued by said law.
Environmental Conservation Rules, 2014	
Rules 58	The Ministry shall form the EIA Report Review Body with the experts from the relevant Government departments, organizations.
Rules 59	The Ministry may assign duty to the Department to scrutinize the report of EIA prepared and submitted by any organization or person relating to EIA and report through the EIA Report Review Body.
Rules 61	The Ministry may approve and reply on the EIA report o IEE or EMP with the guidance of the Committee.
Sub-rule (a) of rule 68	The project proponent has to avoid emit, discharge or dispose the materials which can pollute to environment, or hazardous waste or hazardous material prescribed by notification in the place where directly or indirectly injure to public.
Sub-rule (b) of rule 68	The project proponent has to avoid performing to damage to ecosystem and the environment generated by said ecosystem.
Environmental Impact Assessment Procedure (December 2015)	
Objectives	<p>The project proponent has to be liable for all adverse impacts caused by doing or emitting of project owner or contractor, sub-contractor, officer, employee, representative or consultant who is appointed or hired to perform on behalf of project owner, under sub-paragraph (a) of paragraph 102.</p> <p>The project proponent has to support, after consulting with effected persons by project, relevant government organization, government department and other related persons, to resettlement and rehabilitation for livelihood until the effected persons by the project receiving the stable socio-economy which is not lower than the status in pre-project, under sub-paragraph (b) of paragraph 102</p> <p>The project proponent has to fully implement all commitments of project and conditions included in EMP. Moreover, the project proponent has to be liable for contractor and sub-contractor who perform on behalf of him/her have to fully abide by the relevant laws, rules, this procedure, EMP and all conditions, under paragraph 103.</p> <p>The project proponent has to be liable and fully & effectively implement all requirements included in ECC, relevant laws and rules, this procedure and standards under rule 104.</p> <p>The project proponent has to inform the completed information, after specifying the adverse impacts caused by the project, from time to time, under paragraph 105.</p> <p>The project proponent has to continuously monitor all adverse impacts in the pre-construction phrase, construction phrase, operation phrase, suspension phrase, closure phrase and post-closure phrase, moreover has to implement the EMP with abiding the all conditions included in ECC, relevant laws & rules and this procedure, under paragraph 106.</p> <p>The project proponent has to submit, as soon as possible, the failures of his or her responsibility, other implementation, ECC or EMP. If dangerous impact caused by this failure or failure should be known by the Ministry the project</p>

Environmental Management Plan

	<p>proponent has to submit within 24 hours and other than this situation has to submit within 7 days from knowing it, under paragraph 107.</p> <p>The project proponent has to submit the monitoring report dually or prescribed time by Ministry in line with the schedule of EMP, under paragraph 108.</p> <p>The project proponent has to prepare the monitoring report in accord with the rule 109.</p> <p>The project proponent has to show this monitoring report in public place such as library, hall and website and office of project for the purpose to know this report by public within 10 days from the date which the report is submitted to the Ministry. Moreover, has to give the copy of this report, by email or other way which way agreed with the asked person, to any asked person or organization, under paragraph 110.</p> <p>The project proponent has to allow inspector to enter and inspect in working time and if it is needed by Ministry has to allow inspector to enter and inspect in the office and work-place of project and other work-place related to this project in any time, under paragraph 113.</p> <p>The project proponent has to allow inspector to immediately enter and inspect in any time if it is emergency or failure to implement the requirements related to social or environment or caused to it, under paragraph 115.</p> <p>The project proponent has to allow inspector to inspect the contractor and sub-contractor who implement on behalf of project, under paragraph 117.</p>
Screening: Section 23	<p>a) The project proponent shall submit the Project Proposal to the Ministry for Screening.</p> <p>b) The Ministry will send the Project Proposal to the Environmental Conservation Department to determine the need for environmental assessment.</p> <p>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 25 and the additional factors listed in Article 28 in order to designate the Project as one of the following, and then submit it to the Ministry:</p> <p>i) An EIA Type Project, or</p> <p>ii) An IEE Type Project, or</p> <p>iii) A Non-IEE or EIA Type, and therefore not required to</p>
National Environmental Quality (Emission) Guidelines (NEQG) (December 2015)	
Objectives	To provide the basis for regulation and control of noise and vibration, air emissions, and liquid discharges from various sources in order to prevent pollution for purposes of protection of human and ecosystem health.
National Environmental Policy of Myanmar (2019)	
National Environmental Policy Vision & mission	<p>Vision</p> <p>A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar.</p> <p>Mission</p> <p>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, programmes and projects in Myanmar.</p>
Foreign Investment Law, 2012	
Section 8	(a) To support the primary objectives of the national economic development

Environmental Management Plan

	<p>plan, and for businesses that cannot yet be run by the State and citizens or businesses that have insufficient funds and technology.</p> <p>(b) Development of employment activities</p> <p>(l) Protection and conservation of the environment.</p> <p>(q) Appearing the required modern services for the Union and citizens.</p>
Section 17	<p>(a) To abide by the existing laws of the Republic of the Union of Myanmar.</p> <p>(b) To carry out the business by forming a company under the existing laws of Myanmar by the investor.</p> <p>(h) To carry out not to cause environmental pollution or damage in accord with existing laws in respect of investment business.</p> <p>(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.</p>
Foreign Investment Rule, 2013	
Rule 54	<p>The promoter or investor shall:</p> <p>(a) comply with Environmental Protection Law in dealing with environmental protection matters related to the business;</p> <p>(b) shall carry out socially responsible investment in the interest of the Union and its people;</p> <p>(c) shall co-operate with authorities for occasional or mandatory inspection;</p> <p>(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, workshops, buildings, and other activities;</p> <p>(e) shall enforce Safety and Health</p>
Myanmar Investment Rules, 2017	
Rule 202	The project proponent has to comply with the conditions of the permit issued by the MIC and applicable laws when making the investment
Rule 203	The project proponent has to fully assist while negotiating with the authority for settling the grievance of the local community which has been affected due to investment
Rule 206.	The project proponent has to submit the passport, expert 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
Myanmar Insurance Law (1993)	<p>Section 15 - If the project proponent uses the owned vehicles the project owner has to ensure the insurance for the injured person.</p> <p>Section 16 - The project proponent has to ensure insurance to compensate for general damages because the project may cause damages to the environment and injury to the public.</p>
Payment of Wages Law (2016)	
Section 3 & 4	The project proponent has to pay the wages in accord with section 3 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

Environmental Management Plan

	employees who work over working hours
Yangon City Development Committee 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 noise pollution, water pollution, air pollution, and soil pollution to impact the environment within the city's boundaries
The Amended Law for Factories Act, 1951 (2016)	
Hygiene in Working Environment: Section 3	Mentions responsibilities of employer and manager regarding waste disposal, ventilation, extreme temperature, dust and gas generation, minimum space for each worker, lighting, portable drinking water and toilets for employees.
Safety in Working Environment: Section 4	States responsibilities of employer and manager concerning with machine guarding, personal protective equipment, housekeeping, aisles and exits, chemical storage and fire protection system to avoid accident.
The Private Industrial Enterprise Law, 1990	
Basic Principles: Section 3	<p>Private Industrial Enterprises shall be conducted in accordance with the following basic principles:-</p> <p>(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;</p> <p>(b) to acquire modern technical know-how for raising the efficiency of industrial enterprises and to establish the sale of finished goods produced by the industrial enterprise not only in the local market, but also in the foreign market;</p> <p>(d) to cause narrowing down of the gap between rural development and urban development by causing the development and improvement of industrial enterprises;</p> <p>(e) to cause opening up of more employment opportunities;</p> <p>(f) to cause avoidance of or reduction of the use of technical know-how which cause environmental pollution;</p> <p>(g) to cause the use of energy in the most economical manner.</p>
The Export and Import Law (2012)	
Objectives	<p>The objectives of this law are as follows:</p> <p>a) To enable to implement the economic principles of the State successfully.</p> <p>b) To enable to lay down the policies relating to export and import that supports the development of the State.</p> <p>c) To cause the policies relating to export and import of the State and activities are to be in conformity with the international trade standards.</p> <p>d) To cause to be streamlined and speedy in carrying out the matters relating to export and import.</p>
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.

Environmental Management Plan

Prohibitions: Section 5	A person who obtained any license shall not violate the conditions contained in the license.
The Prevention of Hazard from Chemical and Related Substances Law, 2013	
<p>This law was enacted with the objectives of :</p> <ul style="list-style-type: none"> a. To protect from being damaged the natural environment resources and being hazardous any living beings by chemical and related substances; b. To supervise systematically 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 environmental conservation. <p>Regarding the chemical management and storage, currently, regulations governing chemicals 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.</p>	
Underground Water Act	
<p>The underground water act enacted on the date of 21st June in 1930 whereas it is expedient to conserve 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 recoverable from the owner of the tube as if it were an arrear of land-revenue.</p>	
Myanmar Fire Brigade Law (2015)	
<p>The Pyidaungsu Hluttaw enacted this law by Law No.11/2015 on the date of 17th March, 2015 with the following objectives:</p> <ul style="list-style-type: none"> (a) to take precautionary and preventive measures and loss of state own property, private property, cultural heritage and the live and property of public due to fire and other natural disasters (b) to organize fire brigade systemically and to train the fire brigade (c) to prevent from fire and to conduct release work when fire disaster, natural disaster, epidemic disease or any kind of certain danger occurs (d) to educate, organize and inside extensively so as to achieve public corporation (e) to participate if in need for national security, peace for the citizens and law and order 	
Section-8 Fire Safety Procedures	
Rule17	<p>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:</p> <ul style="list-style-type: none"> 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
Rule18	<p>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</p>

Environmental Management Plan

The Electricity Law (2014)	
<p>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 30 MW); the states and regions can issue 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.</p>	
Boiler Law (2015)	
Chapter (2) Objective	<p>The objectives of this law are as follows:</p> <ul style="list-style-type: none"> (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 in compliance with Myanmar Standards or International Standards within the country (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) 4. With the permission of the Ministry, the inspector general can:	<p>Notify the inspection methods and instructions according to the national or international standards for safe operations of boilers in line with this law, procedures and instructions</p> <p>Only the results obtained from the prescribed boiler standards and inspection methods will be approved.</p>
Chapter (4). Boiler Registration	<p>5. Anybody who would like to use a boiler in any kind of business should be registered.</p> <p>6. Boiler should be manufactured according to Myanmar Standards or International Standards.</p> <p>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</p> <p>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.</p> <p>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.</p> <p>10. The Inspector General shall define boiler size according to heated surface area in accordance with adopted procedures.</p>
Chapter (13) Prohibitions	<p>59. According to Section 21, nobody must alter, change, deface, deform or make embossed registration unnoticeable illegitimately.</p> <p>60. Nobody is allowed to repair a boiler without boiler repair certificate.</p> <p>61. Nobody is allowed to maintain a boiler without boiler maintenance certificate.</p> <p>62. Nobody must alter safety relief valve in order to exceed the allowable pressure due to his consent or direction given by the owner.</p> <p>63. Nobody must manufacture boilers against Section 25, Subsection 25 (a) and (b) enacted.</p>

Environmental Management Plan

Labor Dispute Settlement Law (28 Mar 2012 replacing 1929 version)	
The Pyidaungsu Hluttaw hereby enacts this Law for safeguarding the right of workers or having good relationship between employer and workers and making peaceful workplace or obtaining the rights fairly, rightfully and quickly by settling the dispute of employer and worker justly.	
The Social Security Law (2012)	
The Social Security Law, enacted in 2012, was amended the Social Security Act in 1954. It stipulates the formation and implementation of social security systems.	
Section 53(a)	The employers and workers shall co-ordinate with the Social Security Board or insurance agency in respect of keeping plans for safety and health in order to prevent employment injury, contracting disease and decease owing to occupation and in addition to safety and educational work of the workers and accident at the establishment;
Labor Dispute Settlement Law (28 Mar 2012 replacing 1929 version)	
This law was enacted for safeguarding the right of workers or having good relationship between employer and workers and making peaceful workplace or obtaining the rights fairly, rightfully and quickly by settling the dispute of employer and worker justly. It stipulates that employer in which more than 30 workers are employed shall form the workplace coordinating committee consisting of the representatives of workers and the representatives of employer.	
Section 23	A party, employer or worker, may complain individual dispute relating to his grievance to the Conciliation Body and if he is not satisfied with the conciliation of such 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, in 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 such dispute; (b) concluding mutual agreement if the settlement is reached in conciliating under sub-section (a), before the Conciliation Body.
Section 25	The Conciliation Body shall refer the collective dispute which does not reach settlement to the relevant Arbitration Body and inform the persons relating to the dispute.
Section 38	No employer shall fail to negotiate and coordinate in respect of the complaint within the prescribed period without sufficient cause.
Section 39	No employer shall alter 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 the Arbitration Body or Tribunal, to affect the interest of such workers immediately.
Section 40	The project proponent has to not close the work without negotiation, discussion on dispute in accord with this law, decision by Tribunal
Section 51	The project proponent has to pay the compensation decided by Tribunal if violates any act or any omission to omission to damage the interest of labour by reducing of product without efficient cause.
Section 46	Any employer who violates any prohibition contained in sections 38 and 39 shall, on conviction, be punished with a fine for a minimum of one-lakh kyats.
The employment and skill development (2013)	
This law was enacted for safeguarding the right of workers or having skillful of workers and making peaceful workplace or obtaining the rights fairly, rightfully and quickly by settling the dispute of employer and worker justly. Employer shall conduct occupational training to enhance the skills of workers.	

Environmental Management Plan

Section 5	The project proponent has to appoint employees with the contract in line with the provision of section 5 of said law.
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 Wage 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 leave 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	<p>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</p> <p>The project owner has to cooperate with the authorized person or organization in line with the section 3 and 5 of said law.</p> <p>The project proponent has to abide by any instruction or stipulation for public health under the section 3 of said law.</p> <p>The project proponent has to allow any inspection, anytime, anywhere if it is needed under the section 5 of said law.</p>
Prevention and Control of Communicable Disease Law 1995 (Amendment in 2011)	
Chapter 2 Prevention	<p>4. When a Principal Epidemic Disease of a Notifiable Disease occurs; Immunization and other necessary measures shall be undertaken by the Department of Health, in order to control the spread thereof;</p> <p>The public shall abide by measures undertaken by the Department of Health under sub-section (a).</p>
Chapter 4 Environmental Sanitation	<p>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, undertake the responsibility of carrying out the following environmental sanitation measures;-</p> <p>Indoor, outdoor sanitation or inside the fence outside the fence sanitation;</p> <p>Well, ponds and drainage sanitation;</p> <p>Proper disposal of refuse and destruction thereof by fire;</p>

Environmental Management Plan

	Construction and use of sanitary latrines; Other necessary environmental sanitation measures.
Occupational Safety and Health Law (2019)	
Purpose:	To effectively implement measures related to safety and health in every industry and to set occupational safety and health standards;
Section-26 Sub-section (e)	The project proponent has to provide adequate and relevant personal 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 Sub-section (1)	The project proponent has to arrange and display occupational safety and health instructions, warning signs, notices, posters, and signboards.
Section-30 Sub-section (a)	The worker shall wear or use at all times any protective clothes, equipment and tools provided by the employer for the purpose of safety and health.
Section-30 Sub-section (d)	The worker shall proper and systematic use any equipment and tools, machines, any parts of the machines, vehicles, electricity and other substances being used at the workplace.
Section-30 Sub-section (e)	The worker shall take reasonable care for the safety and health of himself/ herself and of other persons who may be affected by his/ her acts or omissions at work.
The law on Standardization	
Objectives	The Objectives of this Law are as follows: 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 impact, and conservation of natural resources to enable to protect manufacturing, distributing and importing the disqualified goods which do not meet the prescribed standard and those which are not safe and endangered to the environment to support on establishing the ASEAN Free Trade Area and to enable to reduce technical barriers to trade to facilitate technological transfer and innovation by using the standards for the development of national economic and social activities in accordance with the national development programme.
Chapter 7 Taking Action by Committee No. 19	The committee may, if it is found out that holder of certificate of certification violates any term or condition contained in the relevant recommendation, pass any of the following administrative order: warning suspending the certificate of certification for limited period cancelling the certificate of certification
လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတက်သောဝတ္ထုပစ္စည်းများဆိုင်ရာဥပဒေ (၂၀၁၈)	
ရည်ရွယ်ချက်	လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတက်သော ဝတ္ထုပစ္စည်းများကို စနစ်တကျပြုလုပ်ခြင်း၊ တင်သွင်းခြင်း၊ သယ်ယူခြင်း၊ သိုလှောင်ခြင်းနှင့် သုံးစွဲခြင်းတို့ပြုနိုင်ရန်၊ ယင်းဘီလူးနှင့် ဆက်စပ်သုံးပစ္စည်းများ အသုံးပြုသည့် လုပ်ငန်းခွင်ဘေးအန္တရာယ်

Environmental Management Plan

	ကင်းရှင်း၍ လုံခြုံမှုရှိစေရန်၊ လုပ်ငန်းခွင်သုံး ပေါက်ကွဲစေတက်သော ဝတ္ထုပစ္စည်းများ ပြုလုပ်သုံးစွဲမှုများကို စနစ်တကျ ကြီးကြပ်နိုင်ရန်။
အခန်း ၇ တားမြစ်ချက်များ အမှတ် ၁၈	လိုင်စင်ရရှိသူနှင့် ခွင့်ပြုချက်ရရှိသူ မည်သူမျှ စစ်ဆေးရေးအရာရှိချုပ် သို့မဟုတ် စစ်ဆေးရေးအရာရှိ၏ စစ်ဆေးခြင်းကို ခံယူရန် ငြင်းပယ်ခြင်းမပြုရ။
အမှတ် ၁၉ (ခ)	ပုဒ်မ ၈ အရ ကာကွယ်ရေးဌာနကောင်စီ အမှုဆောင်အဖွဲ့၏ အတည်ပြုချက်မရရှိဘဲ လုပ်ငန်းခွင် ပေါက်ကွဲစေတက်သော ဝတ္ထုပစ္စည်းများကို ဖျက်ဆီးခြင်းမပြုရ။
အမှတ် ၁၉ (ဂ)	ဤဥပဒေအရ ထုတ်ပြန်သည့် နည်းဥပဒေ၊ စည်းမျဉ်း၊ စည်းကမ်း၊ အမိန့်ကြော်ငြာစာ၊ အမိန့်နှင့် ညွှန်ကြားချက်များနှင့်အညီ ဆောင်ရွက်ရန် ပျက်ကွက်ခြင်း မရှိစေရ။
The Motor Vehicles Law (2015)	
Objectives	When the constructions periods and if it is needed in operation and production period for all vehicles <ul style="list-style-type: none"> 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.
The Conservation of Water Resources and Rivers Law (2006)	
Aims	The aims of this Law are as follows: <ul style="list-style-type: none"> (a) to conserve and protect the water resources and rivers system for beneficial utilization by the public; (b) to smooth and safety waterways navigation along rivers and creeks; (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: <ul style="list-style-type: none"> (a) carry out any act or channel shifting with the aim to ruin the water resources and rivers and creeks. (b) cause the wastage of water resources wilfully.
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, chemical, poisonous material and other materials which may cause environmental damage, or dispose of explosives from the bank or from a vessel which is plying, vessel which has berthed, anchored, stranded or sunk.
No. 12	No person shall carry out growing of garden, digging, filling, silt trapping, closing pond, dyke building or erecting spur in the river-creek boundary, bank boundary and waterfront boundary without the permission of the relevant government department and organization.
No. 15	No person shall carry out the construction of switchback, dockyard, wet dockyard, water-tight dockyard, building of jetty, pier, landing stage or vessel landing by drainage in the river-creek boundary, bank boundary and waterfront boundary without the permission of the Directorate.
The Commercial Tax Law (1990) Amended 2014	
Chapter 5	Any Person who commences operation of a goods production enterprise or

Environmental Management Plan

Registration and Intimation of Commencement of Enterprise 11 (b)	service enterprise shall furnish letter of intimidation on the commencement of the operation as such to the relevant Township Revenue Officer as stipulated by regulations.
Chapter 6 Monthly Payment of Tax and Sending of Three-Monthly Return 12 (a)	Any person who has taxable proceed of sale or receipt from service 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.
12 (b)	The Township Revenue Officer may intimate any person to pay due monthly tax and send three-monthly return if there 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 (d)	The tax paid under sub-section (a), (b) or (c) shall be set-off from the tax due in the assessment.
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.

2.2. NATIONAL ENVIRONMENTAL QUALITY (EMISSION) GUIDELINES

As specified in the EIA Procedure, all projects are obliged to use, comply with and refer to applicable national guidelines or standards or international standards adopted by the Ministry. As specified in the EIA Procedure, following project approval a project shall commence implementation strictly in accordance with the project EMP and any additional requirements set out in the project ECC, which will encompass conditions relating to emissions. While these Guidelines generally apply to all projects subject to the EIA Procedure, it is the prerogative of the Ministry to decide how the Guidelines should be applied to existing projects as referred to in the EIA Procedure.

According to the Environmental Conservation Law, MOECF shall set standards of environmental qualities as agreed by the Union Government and the Environmental Conservation Committee to provide the basis for regulation and control of noise and vibration, air emissions and liquid discharges from various sources in order to prevent pollution for purposes of protection of human and ecosystem health.

2.2.1. General Guidelines

General guidelines of related environmental impact guideline for proposed project are -

2.2.1.1. Air emission

Projects with significant sources of air emissions, and potential for significant impacts to ambient air quality, should prevent or minimize impacts by ensuring that: (i) emissions do not result in concentrations that reach or exceed national ambient quality guidelines and standards, or in their

Environmental Management Plan

absence current World Health Organization (WHO) Air Quality Guidelines¹ for the most common pollutants as summarized below; and (ii) emissions do not contribute a significant portion to the attainment of relevant ambient air quality guidelines or standards (i.e. not exceeding 25 percent of the applicable air quality standards) to allow additional, future sustainable development in the same air shed. Industry-specific guidelines summarized hereinafter shall be applied by all projects to ensure that air emissions conform to good industry practice. Reference should be made to WHO's Air Quality Guidelines for Europe² for air pollutants not included in the following Table 2-2.

Table 2-2 WHO's Air Quality Guideline

Parameter	Averaging Period	Guideline Value
Nitrogen Dioxide	1-year	40
	1-hour	200
Ozone	8-hour	100
Particulate Matter PM ₁₀ ^a	1-year	10
	24-hour	50
Particulate Matter PM _{2.5} ^b	1-year	10
	24-hour	25
Sulfur dioxide	24-hour	20
	10-minute	500

^a Particulate matter 10 micrometers or less in diameter

^b Particulate matter 2.5 micrometers or less in diameter

2.2.1.2. Wastewater

Industry-specific guidelines apply during the operations phase of projects and cover direct or indirect discharge of wastewater to the environment. They are also applicable to industrial discharges to sanitary (domestic) sewers that discharge to the environment without any treatment. Wastewater generated from project operations includes process wastewater, wastewater from utility operations, runoff from process and storage areas, and miscellaneous activities including wastewater from laboratories, and equipment maintenance shops. Projects with the potential to generate process wastewater, sanitary sewage, or storm water should incorporate the necessary precautions to avoid, minimize, and control adverse impacts to human health, safety or the environment. Industry-specific guidelines summarized hereinafter shall be applied by all projects, where applicable, to ensure that effluent emissions conform to good industry practice.

For project types where industry-specific guidelines are not set out in these Guidelines, the following general guideline values, or as stipulated on a case-by-case basis, apply during project operations.

Table 2-3 Wastewater, Storm Water Runoff, Effluent and Sanitary Discharges

Parameter	Unit	Guideline Values
5-day Biochemical oxygen demand	mg/l	50
Ammonia	mg/l	10
Arsenic	mg/l	0.1
Cadmium	mg/l	0.1

Environmental Management Plan

Chemical oxygen demand	mg/l	250
Chlorine (total residual)	mg/l	0.2
Chromium (hexavalent)	mg/l	0.1
Chromium (total)	mg/l	0.5
Copper	mg/l	0.5
Cyanide (free)	mg/l	0.1
Cyanide (total)	mg/l	1
Fluoride	mg/l	20
Heavy metals (total)	mg/l	10
Iron	mg/l	3.5
Lead	mg/l	0.1
Mercury	mg/l	0.01
Nickel	mg/l	0.5
Oil and grease	mg/l	10
pH	S.U. ^a	6-9
Phenols	mg/l	0.5
Selenium	mg/l	0.1
Silver	mg/l	0.5
Sulphide	mg/l	1
Temperature increase	°C	<3 ^b
Total coliform bacteria	100 ml	400
Total phosphorus	mg/l	2
Total suspended solids	mg/l	50
Zinc	mg/l	2

^b At the edge of a scientifically established mixing zone which takes into account ambient water quality, receiving water use, potential receptors and assimilative capacity; when the zone is not defined, use 100 meters from the point of discharge

2.2.1.3. Noise levels

Noise prevention and mitigation measures should be taken by all projects where predicted or measured noise impacts from a project facility or operation exceed the applicable noise level guideline at the most sensitive point of reception. Noise impacts should not exceed the levels shown below, or result in a maximum increase in background levels of three decibels at the nearest receptor location off-site.

Table 2-4 Noise Levels of National Environmental Quality (Emission) Guideline

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)

Environmental Management Plan

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, education	55	45
Industrial, commercial	70	70

^a Equivalent continuous sound level in decibels**2.2.2. Garment, Textile and Leather Products Manufacturing**

This guideline applies to textile manufacturing using natural fibers, synthetic fibers (made entirely from chemicals), and regenerated fibers (made from natural materials by processing these materials to form a fiber structure). It does not include polymer synthesis and natural raw material production.

2.2.2.1. Effluent levels

Parameter	Unit	Guideline Value
5-day Biochemical oxygen demand	mg/l	30
Absorbable organic halogens	mg/l	1
Ammonia	mg/l	10
Cadmium	mg/l	0.02
Chemical oxygen demand	mg/l	160
Chromium (hexavalent)	mg/l	0.1
Chromium (total)	mg/l	0.5
Cobalt		0.5
Color		7 (436 nm ^a , yellow) 5 (525 nm, red) 3 (620 nm, blue)
Copper	mg/l	0.5
Nickel	mg/l	0.5
Oil and grease	mg/l	10
Pesticides		0.05-010 ^b
pH	S.U. ^c	6-9
Phenol	mg/l	0.5
Sulfide	mg/l	1
Temperature increase	°C	<3 ^d
Total coliform bacteria	100 ml	400
Total nitrogen	mg/l	10

Environmental Management Plan

Total phosphorus	mg/l	2
Total suspended solids	mg/l	50
Zinc	mg/l	2

a Nanometers

b 0-05 mg/l for total pesticides (organ phosphorus pesticides excluded); 0.10 mg/l for organo phosphorus pesticides

c Standard Unit

b at the edge of a scientifically established mixing zone which takes into account ambient water quality, receiving water use, potential receptors and assimilative capacity; when the zone is not defined, use 100 meters from the point of discharge

2.2.2.2. Air emission levels

Parameter	Unit	Guideline Value
Ammonia	mg/Nm ^{3a}	30
Carbon disulfide	mg/Nm ³	150
Chlorine	mg/Nm ³	5
Formaldehyde	mg/Nm ³	20
Hydrogen sulfide	mg/Nm ³	5
Particulates	mg/Nm ³	50 ^b
Volatile organic compounds	mg/Nm ³	2/20/50/75/100/1 150 ^{c, d}

a Milligrams per normal cubic meter at specified temperature and pressure

b as the 30-minute mean for stack emissions

c Calculate as Total carbon

d As the 30-minute mean for stack emissions; 2 mg/Nm³ for volatile organic compounds classified as carcinogenic or mutagenic with mass flow greater than or equal to 10 g/hr; 20 mg/Nm³ for discharges of halogenated volatile organic compounds with a mass flow equal or greater than 100 g/hr; 50 mg/ Nm³ for waste gases from drying of large installations (solvent consumption > 15 tons/year); 75 mg/Nm³ for coating application processes for large installations (solvent consumption > 15 tons/year); 100 mg/Nm³ for small installations (solvent consumption < 15 tons/year); if solvent is recovered from emissions and reused, the guideline value is 150 mg/Nm³

2.2.3. IFC EHS Guidelines

The EHS Guidelines¹ by International Finance Cooperation (IFC) are technical reference documents with general and industry-specific examples of Good International Industry practice (GIIP), as defined in IFC's Performance Standard 3: Resources Efficiency and Pollution Prevention. The EHS Guidelines contain the performance levels and measures that are normally acceptable to IFC, and that are generally considered to be achievable in new facilities at reasonable costs by existing technology.

There are two kinds of guidelines, General EHS Guidelines and Industry Sector Guidelines. The General EHS Guidelines contain information on cross-cutting environmental, health, and safety issues potentially applicable to all industry sectors in the following section: (1) Environment, (2) Occupational Health and Safety, (3) Community Health and Safety and (4) Construction and Decommissioning. Table 2-5 shows the contents of the section of Community Health and Safety.

Table 2-5 Community health and safety contents

Contents	Brief Description
Water Quality and Availability	Drinking water sources should at all times be protected so that they meet or exceed applicable national acceptability standards or in their absence the current edition of WHO Guidelines for Drinking-Water Quality. Project activities should not compromise the availability of water for personal hygiene needs

Environmental Management Plan

Contents	Brief Description
	and should take account of potential future increases in demand. The overall target should be the availability of 100 liters per person per day.
Structural Safety of Project Infrastructure	Reduction of potential hazards is best accomplished during the design phase when the structural design, layout and site modifications can be adapted more easily. The following issues should be considered and incorporated as appropriate into the planning, siting, and design phases of a project (1) inclusion of buffer strips or other methods of physical separation around project sites to protect the public from major hazards associated with hazardous materials incidents or process failure (2) incorporation of siting and safety engineering criteria to prevent failures due to natural risks posed by earthquakes, tsunamis, wind, flooding, landslides and fire, and (3) application of locally regulated or internationally recognized building codes, standards and regulations, and mitigation measures.
Traffic Safety	Traffic safety should be promoted by all project personnel during displacement to and from the workplace, and during operation of project equipment on private or public roads. Prevention and control of traffic related injuries and fatalities should include the adoption of safety measures that are protective of project workers and of road users, including those who are most vulnerable to road traffic accidents.
Transport of Hazardous Materials	Projects should have procedures in place that ensure compliance with local laws and international requirements applicable to the transport of hazardous materials.
Disease Prevention	Recommended interventions against the communicable diseases at the project level include (1) providing surveillance and active screening and treatment of workers, (2) preventing illness among workers in local communities by undertaking health awareness and education initiatives, training health workers in disease treatment and conducting immunization programs for workers, and (3) providing treatment through standard case management in on-site or community health care facilities.
Emergency preparedness and Response	All projects should have an Emergency preparedness and Response Plan that is commensurate with the risks of the facility and that includes the following basic elements: (1) Administration (policy, purpose, distribution, definitions, etc.) (2) Organization of emergency areas (command centers, medical stations, etc. (3) Roles and responsibilities, (4) Communication systems, (5) Emergency response procedures, (6) Emergency resources, (7) Training and updating, (8) Checklists (role and action list and equipment checklist), and (9) Business Continuity and Contingency.

2.3. INSTITUTIONAL ARRANGEMENT

The Ministry of Environmental Conservation and Forestry (MOECF) was reformed as the Ministry of Natural Resources and Environmental Conservation (MONREC) on 30th March, 2016 in order to undertake both environmental and natural resources conservation and management more effectively. Under Section 3 of the Environmental Impact Assessment Procedure (2015), pursuant to section 21 of the law and Articles 52, 53 and 55 of the Environmental Conservation Rules, all projects and project expansions undertaken by any organization, which may cause impact on environmental quality that, are required to obtain prior permission. This is to be in accordance with section 21 of the Environmental Conservation Law, and Article 62 of the Environmental Conservation Rules, having the potential to cause adverse impacts, that are required to undertake IEE or EIA or to develop an EMP, and to obtain an Environmental Compliance Certificate (ECC) in accordance with this EIA procedure.

2.4. COMMITMENT OF JIANGSU SOHO (MYANMAR) GARMENT COMPANY LIMITED

Jiangsu Soho (Myanmar) Garment Company Limited has made the commitments and responsible for the preservation of the environment at and around the area of project site. In addition to

Environmental Management Plan

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.

- a) The accuracy and completeness of the EMP,
- b) That the EMP has been prepared in strict compliance with applicable laws including this Procedure
- c) That the Project will at all times comply fully with the commitments, mitigation measures, and plans in the EMP Report.

Jiangsu Soho (Myanmar) Garment Company Limited shall be responsible for the environmental assessment of factory development as follows:

- Monitoring the factory area operations according to EMP and Environmental Monitoring Plan (EMoP)
- 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 DISCRIPTION

3.1. LOCATION OF PROPOSED PROJECT

The proposed project is located at Latitude 16°56'17.27"N and Longitude 96°5'0.38"E, Plot No. 88, Myay Taing Block No. 64 (Sethmu), Shwe Pyi Thar Township, Yangon Region. The location map of the proposed project site is shown in Figure 3-1.

3.2. OBJECTIVES OF PROPOSED PROJECT

The proposed project intends to manufacture garment on CMP basic and to export 100% of the finished products. Jiangsu Soho (Myanmar) Garment factory will be imported raw materials from China, Japan, Korea, EU, UK and Mongolia and finished the good products exported to these countries.

3.3. SITE DESCRIPTION OF PROPOSED PROJECT SITE

The proposed project locates at the coordinates of Latitude 16°56'17.27"N and Longitude 96°5'0.38"E. The total area of project site is 1.252 acres (5066.6642 sqm). Two storey building (200 ft × 200 ft) is used for operation. Main structure is designed into office area and QC department, sewing department, cutting department and iron department for production building and Transformer room, generator room and water treatment plant are separated by main factory building structure. The factory layout plan can be seen in below.

3.4. ADJACENT MAP OF PROPOSED PROJECT

Jaingsu Soho (Myanmar) Garment Company Limited is located at Shwe Pyi Thar Industrial Zone (3), Shwe Pyi Thar Township, Yangon Region. The nearest water source is Hlaing River and the main roads are Kha Yae Pin Road, Industrial Road and another one is Bayinnaung Road.

Environmental Management Plan

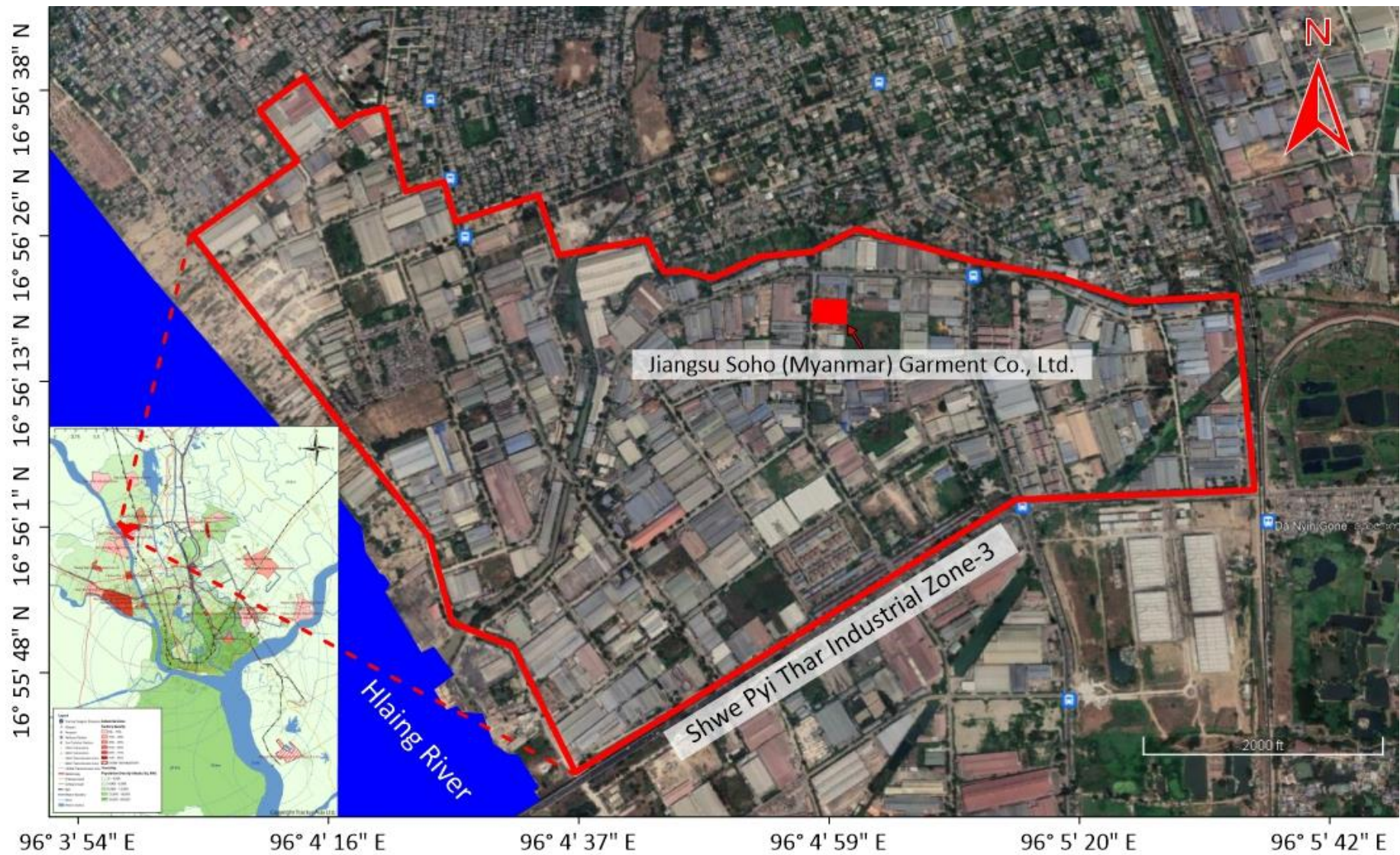


Figure 3-1 Location Map of Jiangsu Soho (Myanmar) Garment Co., Ltd.

Environmental Management Plan



Figure 3-2 Factory Layout Map (Google source)

Environmental Management Plan



Figure 3-3 Adjacent Location Map of Proposed Project

Environmental Management Plan

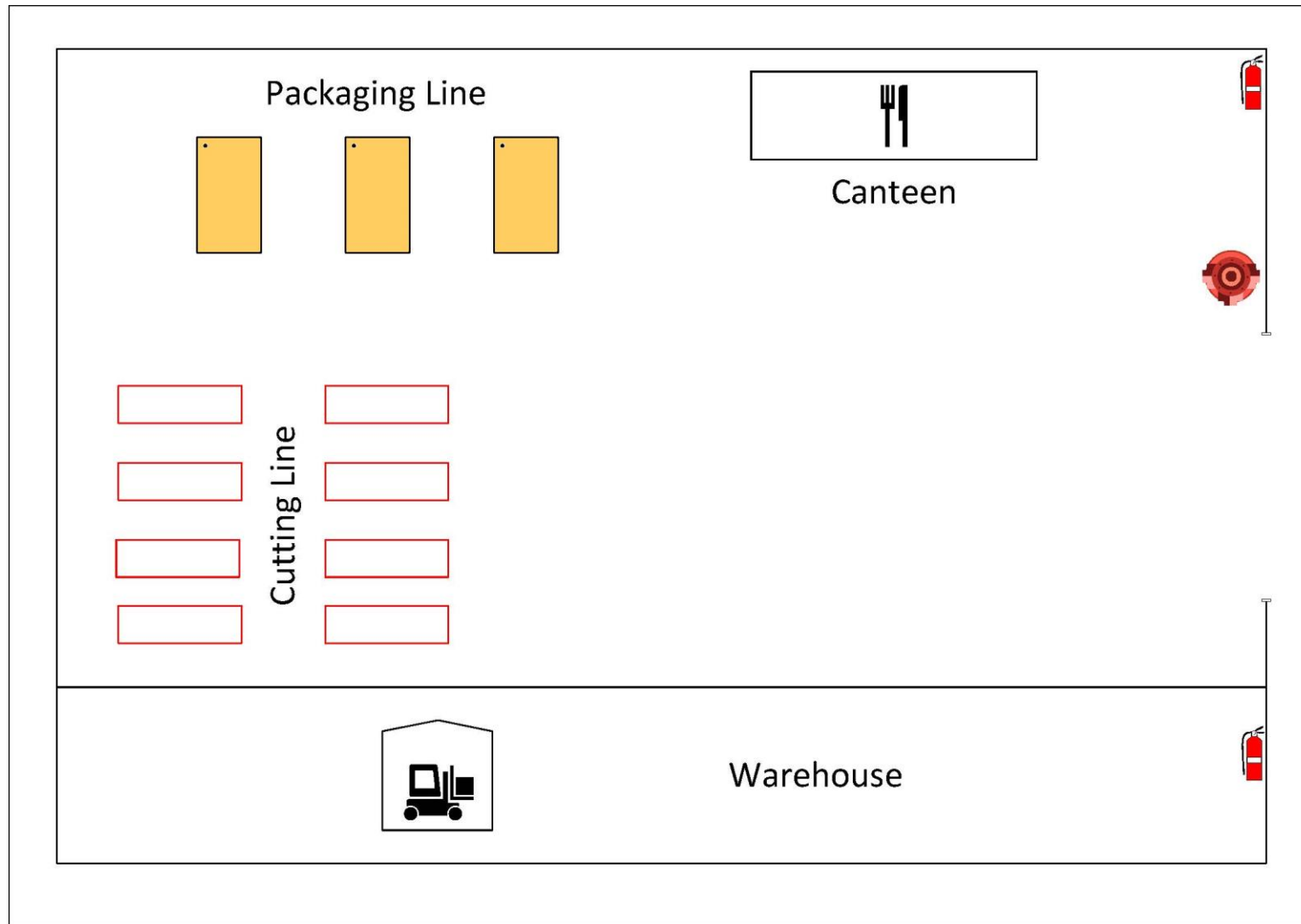


Figure 3-4 First Floor Factory Layout Drawing

Environmental Management Plan

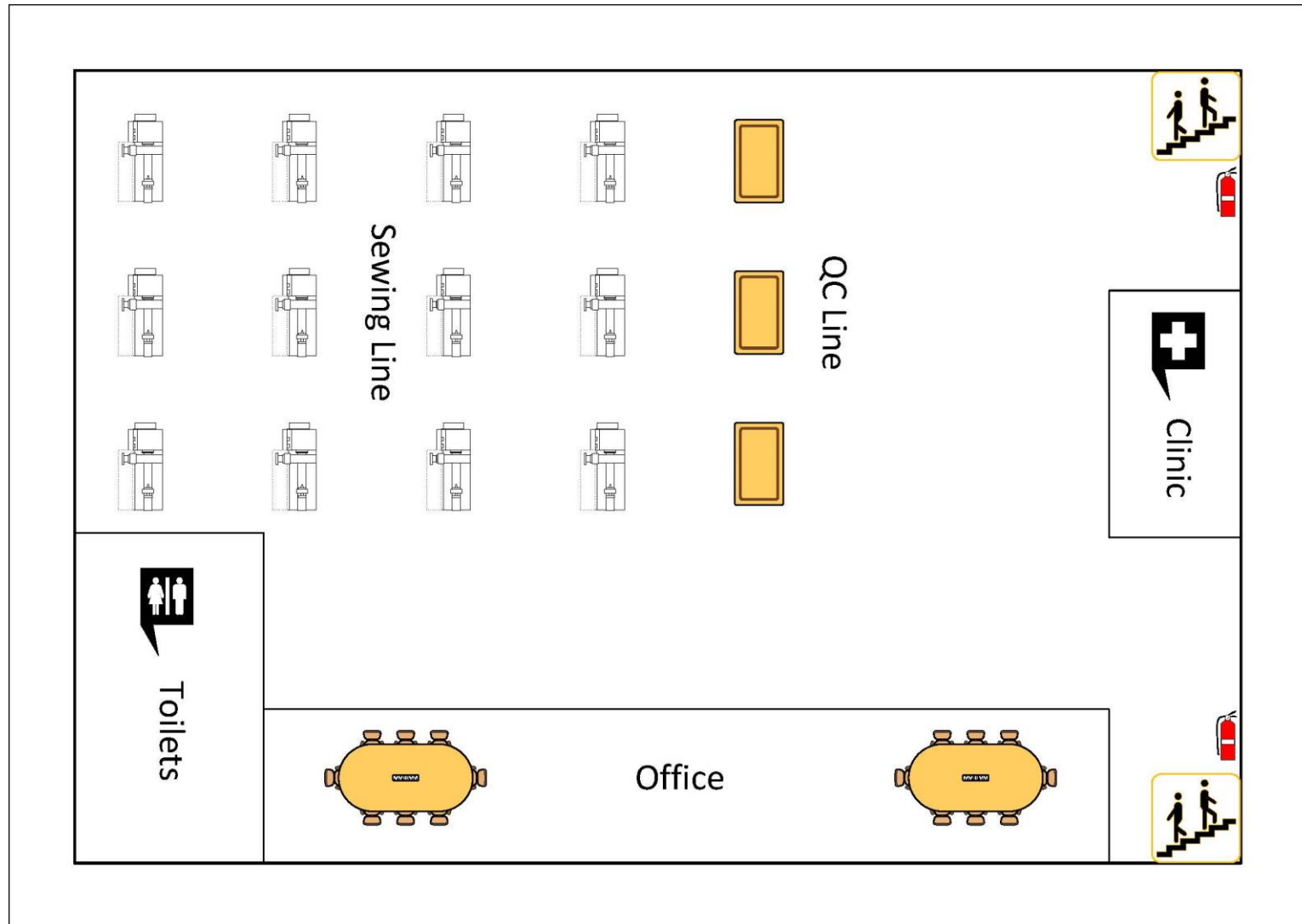


Figure 3-5 Second Floor factory Layout Drawing

3.5. PROJECT OPERATION

Construction phase of the factory is started in February 2020 according to the YRIC's Endorsement. The operation phase of the factory is started from the last week of February 2021 and the validity of endorsement is 30 years. Jiangsu Soho (Myanmar) Garment Company Limited will close the factory as their MIC proposal.

Table 3-1 Jiangsu Soho (Myanmar) Garment Company Limited's Project Life Span

	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	Infinity		
Construction Phase	<div></div>	<div></div>																															
Operation Phase			<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	<div></div>	
Decommissioning Phase																																<div></div>	

3.5.1. Production Process

The production process is based on CMP system in which the production on consignment in which the main raw materials are provided by overseas buyers and imported free of charge, then cut, sewn and packed in the domestic factories, after which all the finished products are exported. The main operation of the proposed factory is sewing. The sewing was operated one and two-needle sewing machine and checked by quality control supervisor on each sewing line. The ironing process is completed after quality control process. Then garment packing is completed and prior to shipping to destinations. The process flow diagram for garment manufacturing is illustrated in Figure 3-6.

Environmental Management Plan

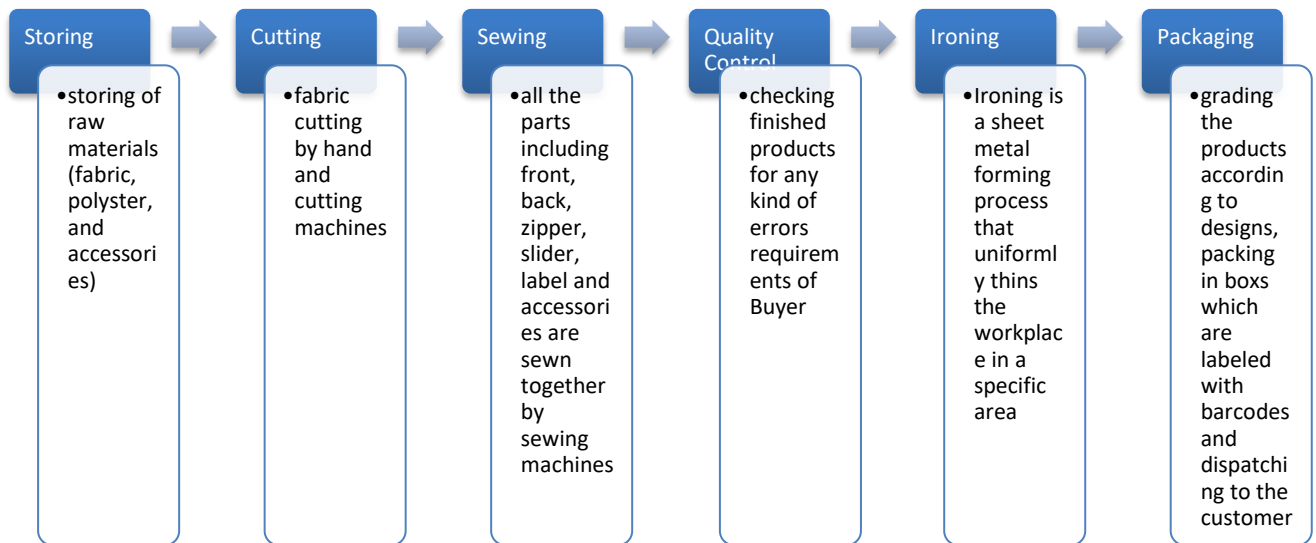
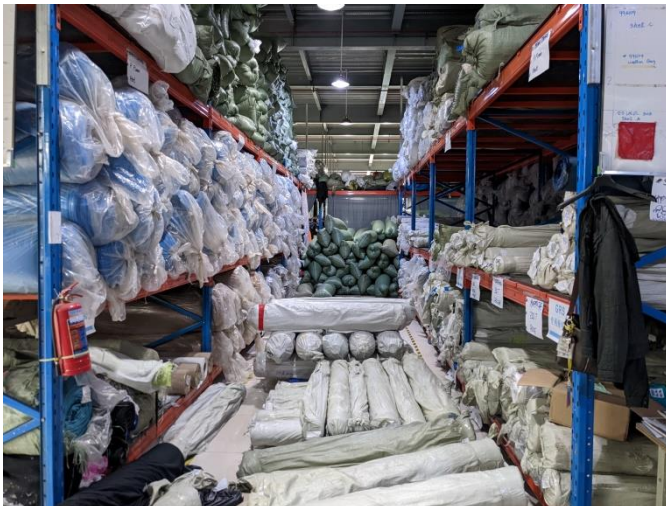


Figure 3-6 Production flow diagram of Jiangsu Soho (Myanmar) Garment factory



Warehouse



Cutting Area



Sewing Area



Ironing Area

Environmental Management Plan



Finishing Area



Packing Area

Figure 3-7 Production Photos

During operation, the proposed factory is expected to produce garment products as per Table 3-2.

Table 3-2 Annual Production Rate

No	Particular	Unit	Year					
			1	2	3	4	5	6-10
1	Baby Girl Jacket	Pcs	1,200,000	1,200,000	1,200,000	1,320,000	1,320,000	1,320,000
2	Old Girl Padding Jacket	Pcs	800,000	800,000	800,000	880,000	880,000	880,000
3	Men's Down Jacket	Pcs	800,000	800,000	800,000	880,000	880,000	880,000
4	Men's Down Vest	Pcs	900,000	900,000	900,000	990,000	990,000	990,000
5	Baby Boy Padding Jacket	Pcs	800,000	800,000	800,000	880,000	880,000	880,000



Environmental Management Plan



Figure 3-8 Products Photo

3.6. UTILITIES

3.6.1. Raw Material

The main Raw Materials are fabric, lining, polyester wadding, zipper, snap button, eyelet, sewing thread, main label, care label, size label, velcro and elastic, which imported from China, Japan, Korea, EU, UK and Mongolia. List of raw materials are described in Table 3-3.

Table 3-3 List of Raw Materials Requirement

No	Particular	HS Code	Unit	Year - 1	Year - 2	Year -3	Year -4	Year -5	Year 6-10
1	Shell Fabric	6206	Yards	5,675,000	5,675,000	5,675,000	6,242,500	6,242,500	6,242,500
2	Lining Fabric	5903	Yards	4,990,000	4,990,000	4,990,000	5,489,000	5,489,000	5,489,000
3	Interlining	5903	Yards	1,175,000	1,175,000	1,175,000	1,292,500	1,292,500	1,292,500
4	Zipper	9607	Pcs	10,300,000	10,300,000	10,300,000	11,300,000	11,300,000	11,300,000
5	Eyelet (metal)	8308	Pcs	10,000,000	10,000,000	10,000,000	11,000,000	11,000,000	11,000,000
6	Elastic Cord	5604	M	2,270,000	2,270,000	2,270,000	2,497,000	2,497,000	2,497,000
7	Stopper	8309	Pcs	5,000,000	5,000,000	5,000,000	5,500,000	5,500,000	5,500,000
8	Main Label	4821	Pcs	4,500,000	4,500,000	4,500,000	4,950,000	4,950,000	4,950,000
9	Size Label	5807	Pcs	4,500,000	4,500,000	4,500,000	4,950,000	4,950,000	4,950,000
10	Care Label	4821	Pcs	13,500,000	13,500,000	13,500,000	14,850,000	14,850,000	14,850,000
11	Sewing	5401	Coil	1,077,000	1,077,000	1,077,000	1,184,700	1,184,700	1,184,700

Environmental Management Plan

No	Particular	HS Code	Unit	Year - 1	Year - 2	Year -3	Year -4	Year -5	Year 6-10
	Thread								
12	Hang Tag	4821	Pcs	4,500,000	4,500,000	4,500,000	4,950,000	4,950,000	4,950,000
13	Sticker	3919	Pcs	4,500,000	4,500,000	4,500,000	4,950,000	4,950,000	4,950,000
14	Plastic Bag	3926	Pcs	4,500,000	4,500,000	4,500,000	4,950,000	4,950,000	4,950,000
15	Tag Pin	3926	Pcs	4,500,000	4,500,000	4,500,000	4,950,000	4,950,000	4,950,000

3.6.2. Machinery and Equipment

List of machinery and equipment required for Jiangsu Soho (Myanmar) Garment factory is following in Table 3-4.

Table 3-4 List of Machinery

No	Description	HS Code	Unit	Quantity
1	Computerized sewing machine	8452	Set	720
2	2-needle lockstitch machine	8452	Set	36
3	5 threads overlock machine	8452	Set	54
4	4 threads overlock machine	8452	Set	36
5	Cutting and packaging machine	8422	Set	20
6	Automatic trimming machine with cutter	8441	Set	10
7	Long arm Template machine	8452	Set	30
8	Automatic cutting machine	8441	Set	5
9	Automatic template machine	8452	Set	12
10	Automatic filling machine	8422	Set	2
11	Button hole machine	8452	Set	5
12	Computerized button machine	8452	Set	5

Environmental Management Plan

No	Description	HS Code	Unit	Quantity
13	Computerized tacking machine	8452	Set	8
14	Sihetun deduction machine	8447	Set	30
15	Needle detector machine	8451	Set	4
16	Cutter machine	8441	Set	20
17	Fabric breaking machine	8448	Set	20
18	Template cutting machine	8441	Set	2
19	CAD printing machine	8443	Set	2
20	Clothing inspection machine	8451	Set	2
21	Bonding machine	8479	Set	3
22	Air Compressor	8414	Set	5
23	Shelves	9403	Set	100
24	Generator 500KVA	8408	Set	1
25	Generator 100KVA	8408	Set	1
26	Lift (2 Tons)	8428	Set	1

3.6.3. Human Resource

Human resource required by foreign experts/technicians and local persons for administrative and production process are about 955 persons which are also described in Table 3-5. Currently, one shift (8 hours + overtime 2 hours) of production is running for operation.

Table 3-5 Employment Schedule of Jiangsu Soho (Myanmar) Garment Company Limited

No.	Particular	Local	Foreign
1.	HR Manager	1	
2.	Assistant Merchandise	1	
3.	Assistant Production Manager	1	

Environmental Management Plan

No.	Particular	Local	Foreign
4.	Admin Manager	1	
5.	Shipping Manager	1	
6.	Assistant Store Manager	1	
7.	Chief Accountant	1	
8.	Accountant	1	
9.	Assistant Shipping Manager	1	
10.	Supervisor	32	
11.	Leader	60	
12.	Assistant Account Manager	1	
13.	Operator	600	
14.	Helper	120	
15.	Quality Control	60	
16.	Pattern Assistant	5	
17.	Driver	3	
18.	General Worker	40	
19.	Cleaner	5	
20.	Security	5	
21.	Electrician	2	
22.	Sampling Manager	2	
23.	Fire Safety Officer	1	
24.	General Manager		1
25.	Head Merchandiser		1
26.	Quality Control Manager		1
27.	Procurement Manager		1
28.	Sampling Technician		2
29.	Mechanical Technician		1
30.	Pattern Technician		1
31.	Packing Supervisor		1
33.	Head Mechanic		1
Total		945	10

3.6.4. Water Requirement

Shwe Pyi Thar Industrial zone (3) has no centralized water supply system and the factory gets water from the tube wells installed inside the factory compound. Groundwater from this tube well is pumped into the tank and overhead tank for the factory and domestic use. The main water use in the proposed project is for domestic usage such as for personal washing, food preparation, and washing of utensils. Main source of water supply will be provided by tube well water in which tube well water is pumped by 2 inches PVC pipe and treated by oxidation tower, chlorine dosing system, de-iron filter

Environmental Management Plan

(FRP), carbon filter, and cartridge filter. The water will be reserved in a tank (4,500 gallons) for toilet and firefighting and an overhead tank (1,500 gallons) with filters. Daily drinking water requirement of propose project is about 2,890 liter per day. Annual water consumption for the whole factory is about 260,000 gallons per year. The tube well water is treated by sedimentation tank, filters in overhead tank and lastly water treatment system including sand filter, carbon filter, water softener and reverse osmosis (RO) system before distribution through the pipe lines.



Figure 3-9 Water storage tank and drinking water supply

3.6.5. Electricity and Fuel Requirement

The proposed project is intended to get required electricity supply form Yangon City Electricity Supply Board (YESB) and distributed by 1250 kVA of Transformer. Another source of energy is 800 kVA and 100 kVA generators will also be kept as the emergency generator if normal electricity supply could not provide for the proposed project. Estimated electricity usage is about 109,000 kWh per month.

Required petrol and diesel for vehicles and generator are purchased from the nearest petrol station. Fuel requirement for proposed Jiangsu Soho (Myanmar) Garment Company Limited is about 1,500 gallons per month. To handle the leakage and spillage of the diesel, an interception with sand is kept under the tank.

Environmental Management Plan



Figure 3-10 Electricity Facilities

3.6.6. Boiler

The factory has Jiang Xin electric steam boiler is used in ironing process for manufacturing process. Estimated water consumption for electric boiler is 20,000 gallons per year. Specification of boiler and installed photo is shown in Figure 3-11. Table 3-6 is used in laundries and garment manufacturing sector for ironing clothes. This table is manufactured using quality assured material and progressive technology under the stern surveillance of skilled engineers according to the set industry norms. Apart from this, patrons can avail this table in several technical specifications according to their requirements.

Features:

- Minimum maintenance
- Optimum strength
- High efficiency

Table 3-6 Specification of Electric Boiler

Model NO.	LDR3-0.4
-----------	----------

Environmental Management Plan

Brand Name	Jiang Xin
Water Capacity	22 L
Power	9 KW
Steam Pressure	0.4 Mpa
Steam Temperature	152°
Product Number	0018
Production Date	2019/7/1



Figure 3-11 Installed photo of boiler

3.7. FACILITIES

3.7.1. Status of the Factory

Jiangsu Soho (Myanmar) Garment Company Limited is using ground water for both industrial and household purpose, which is supplied by deep tube well. The factory also has generators for electricity generation. The fuel used in the industry is Diesel and Purchased electricity. The sanitary liquid waste of the factory is stored in septic tank.

The major pollution caused by the factory's operation are water pollution by discharging liquid waste generated in wet process i.e. air pollution by generator's effluent gas emission, noise pollution created during the operation of generator and other machines.

Solid waste (recycle waste) such as broken machine parts, paper box, fabric scraps, etc., are hand over to local waste buyer. Although the factory causes some pollution but also has a positive side and that is the factory has created employment for many people, due to this factory local community has built up daily.

3.7.2. Industrial Wastes facilities

Wastes generated from the garment factory are cloth scraps of 50% from cutting section, 35% from sewing section and 15% from finishing section. In addition, packing waste of plastic sheet, carton box and fabric paper tube are generated from cutting line and packing section. Total amount of waste about maximum 250 kg per day are generated from operation process. These solid wastes disposal

Environmental Management Plan

from each operation sectors are collected and disposed by connecting with the Yangon City Development Committee (YCDC) once a week. The recyclable waste will be sold to the local waste buyers.



Figure 3-12 Solid Waste Disposal System

3.7.3. Human wastes facilities

The number of staff and workers required in the day shift for the factory is maximum 955 persons during operation. Solid waste generated from maximum number of operators and office staffs with assumption of waste generation rate at 372.45 kg/day was calculated based on solid waste generation rate of 0.39 kg/person/day.

Domestic wastewater generated by maximum amount of 955 persons with assumption rate at 95.5 m³/day was calculated based on domestic wastewater generated rate of 0.1 m³/person/day¹. This water will be released in operation hour discharge to septic tank or factory drainage.



Figure 3-13 Drainage System of Factory

¹ The domestic wastewater generation was based on typical wastewater generation rate of 0.1 m³ per person per day (Metcalf & Eddy, 2004)

Environmental Management Plan

3.7.4. Fire hazards protect facility

For fire safety plan, Jiangsu Soho (Myanmar) Garment Company Limited has a plan to keep sufficient amount of fire extinguishers, in case of emergency fire problems in factory building. Firefighting training plan is also prepared for all employees by using the instructions, techniques and guidelines in concern with fire emergency matters according to the guidelines of Myanmar Fire Services Department. Moreover, smoking inside the building is strongly prohibited to avoid unwanted fire problems.



Figure 3-14 Emergency safety and fire management

3.7.5. Ventilation System

The factory ventilation systems consist of natural ventilation system and mechanical ventilation system. The mechanical ventilation system is provided in office room, production area, canteen and warehouse area.

Environmental Management Plan



Figure 3-15 Ventilation System

3.7.6. Toilet facilities

Currently toilet facilities have hygienic toilets already provided and categorized by gender, marked distinctly for men and women by signs and symbols. In addition, toilet areas will also be provided with water sinks, necessary toiletries, and hand washing soaps, hand drying facilities, and waste bins. Total numbers of toilet for male are 5 rooms and for female are 22 rooms.



Figure 3-16 Toilet Facilities Photos

3.7.7. Medical and Health facilities for employees

The factory has a clinic, first aid kit boxes and full-time nurse-aid has been employed to treat employees for minor injuries, sickness and emergency medical care. Medicines and first aid kits are provided in this clinic. Moreover, these medicines and first aid kits are provided for emergency cases of workers. To prevent electric shock hazards, electrical maintenance staff (handyman) is to be assigned to do regular inspections and take preventive measures.

Environmental Management Plan



Figure 3-17 Clinic Room Photo

3.8. DECOMMISSIONING PHASE

The proposed project investment duration is 30 years and they will close out the project according to their MIC proposal.

4. BRIEF DESCRIPTION OF SURROUNDING ENVIRONMENT

The purpose of this Chapter is to predict how environmental and socio-economic conditions will affect because of the implementation of the proposed Project. This requires a sound understanding of the baseline conditions at the project site, which established through desktop study research, site surveys, primary data collection and projections for future developments. Findings provide the current and future characteristics of the project site and the value and vulnerability of the key environmental and socio-economic resources and receptors. The following sections provide a description of the environmental and socio-economic aspects of the project.

4.1. METHODOLOGY FOR DATA COLLECTION AND ANALYSIS

The followings methodologies are used for Environmental Management Plan (EMP) for this report preparation;

- Onsite Measurements and Analysis – Baseline parameters such as Indoor temperature, humidity, operation light conditions, noise, air and water quality of the project site during operation phase were measured onsite. The analyzed results are mentioned in this chapter.
- Secondary data collection of proposed project site area – Socio economic condition, physical/biological environment, and weather data are collected from official township data of Shwe Pyi Thar Township, Yangon Region.

4.2. ENVIRONMENTAL BASELINE STUDY

The field observation for determining the environmental baseline of the proposed project area was undertaken during construction period. The survey team consists of the senior consultant and environmental quality team. The baseline data collected regarding the environmental condition of the project area was conducted in the following section.

Table 4-1 Location of the Survey Point

Type of Survey	Coordinates	Survey point	Description of survey point
Air Quality Measurement Point	16°56'17.42"N 96°4'59.11"E.	Project site	Outdoor area of the factory
Noise Level (NL)	16°56'17.65"N 96°5'0.38"E	Project site	Production area of the factory



Figure 4-1 Baseline Study Map

4.3. PHYSICAL COMPONENT IN PROJECT AREA

4.3.1. Topography

The proposed project area is situated in Shwe Pyi Thar Industrial Zone (3), Shwe Pyi Thar Township, and its topographic condition is flat. The proposed project site is primarily agricultural land, but now is initiated into the industrial zone area.

4.3.2. Geology

The Yangon area is underlain by alluvial deposits (Pliocene to Recent), the non-marine fluvial tile sediments of Irrawady formation (Pliocene), and hard, massive sandstone of Pegu series (early-late Miocene). Alluvial deposits are composed of gravel, clay, silts, sands and laterite which lie upon the eroded surface of the Irrawaddy formation at 3-4.6 m above mean sea level (MSL). The rock type in Yangon is mainly soft rocks, which consist of sandstone, shale, limestone and conglomerate. Geological map of Yangon Regional area is shown in Figure 4-2. ^[2]

Environmental Management Plan

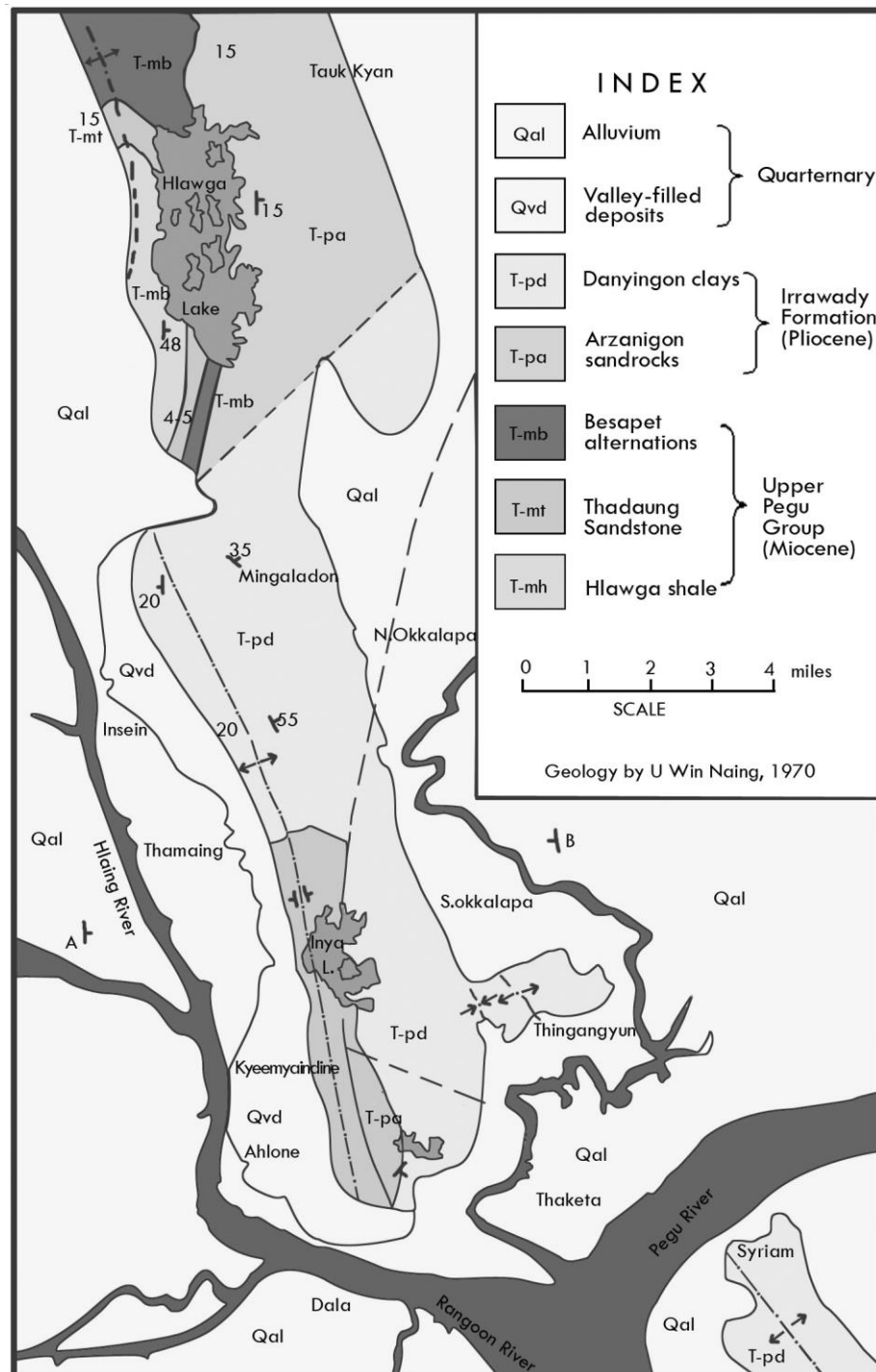


Figure 4-2 Geological Map of Yangon Region

4.3.3. Tectonics

Yangon is situated in the southern part of the Central Lowland which is one of the three major tectonic provinces of Myanmar. The Taungnio Range of the Gyophyu catchments area of Taikkyi District, north of Yangon, through the Thanlyin Ridge, south of Yangon forming a series of isolated hills probably resulted from the progressive deformation of the Upper Miocene rocks as the eastern continuation of the subduction or stretching and compression along the southern part of the Central Basin and regional uplifting of the Pegu Yoma (Aung Lwin 2012). [2]

Environmental Management Plan

4.3.4. Soil

The underlying soil type at the Project Site and its surroundings is characterized as the Meadow and Meadow Alluvial Soil. Meadow Soil is soil which occurs near the river plains exposed to occasional tidal floods, is non-carbonate and usually contains a large amount of salt. Both materials mainly comprise salty clay loam and neutral soil rich in plant nutrient. The upper layers (approximately 0 to 7 m) of the soil at the Project Site comprise largely of cohesive layers with traces of sand and gravel, followed by sand layers with low silt content and trace gravel from 7 to 35 m. The lower layers comprise denser silt layer with traces of sand and gravel from approximately 57 to 70 m. Standard Penetration Test (SPT) results obtained from testing at the Project Site indicate that the soil strength generally increases with depth. The STP results showed that the current soil quality can accommodate the construction of the Project. [2]

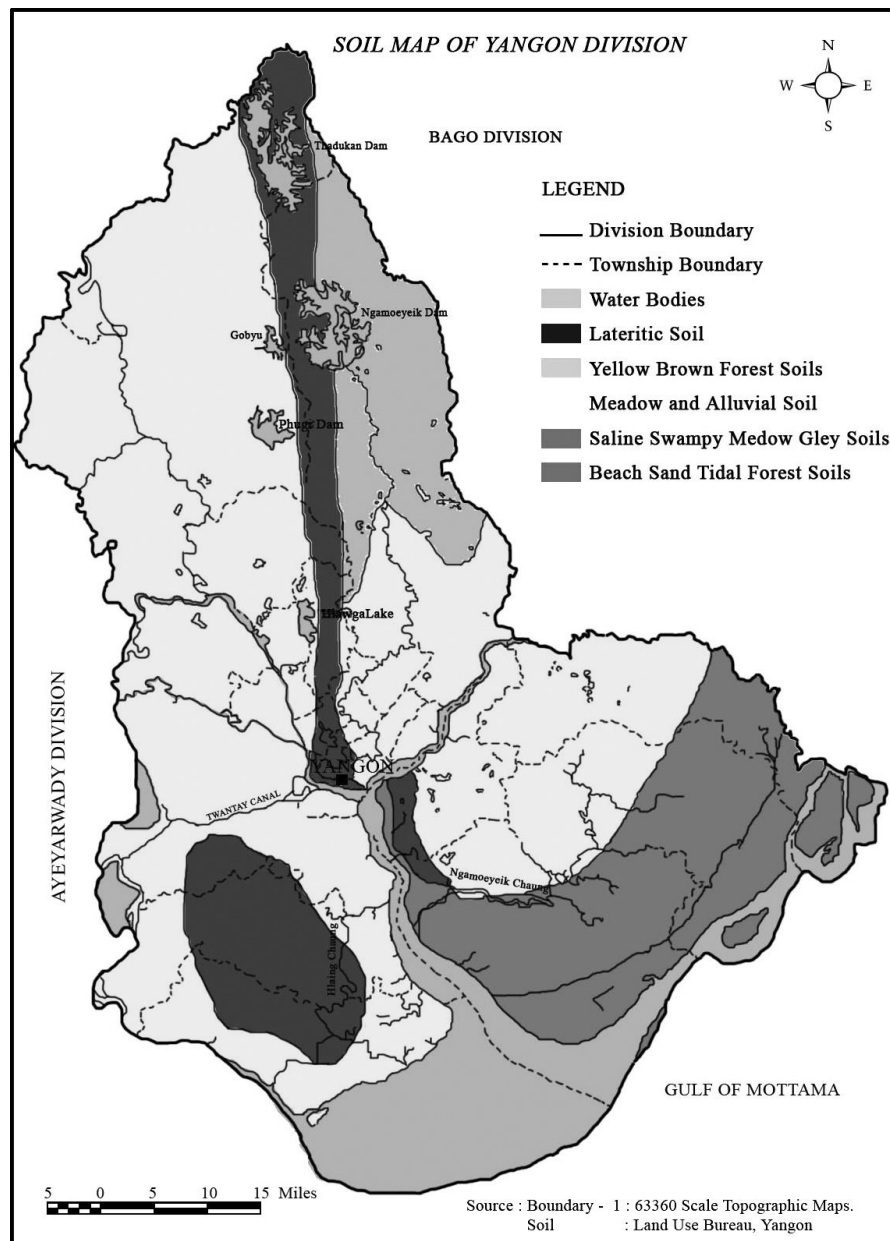


Figure 4-3 Soil map of Yangon (Source: Land use of Bureau of Yangon)

4.3.5. Hydrogeology

Yangon is rich in groundwater resources conserved by unconsolidated Tertiary-Quaternary deposits. In Yangon, groundwater is mostly extracted from Valley filled deposits and Ayeyarwady sandstones.

Groundwater: Groundwater availability is generally based on the distribution of permeable and relatively impermeable rocks. The nature of openings in the rocks determines permeability of rocks. Based on local geological considerations, potential groundwater source of Yangon can be roughly divided into two sub regions, namely the low potential area and high potential area. Low potential areas are areas with those rock units of Hlawga Shale, Thadugan Sandstones and Basepet Alternation of upper Pegu Group (Miocene epoch) and Danyingon Clays of Irrawaddy rocks. These rocks and formations are a dense, massive and consolidated nature and have impervious characteristic. High potential areas are underlain by Pliocene Series and recent Formations. High potential area covers approximately 85 percent of the Yangon city including Pabedan. Stand pipe piezometers were installed at a depth of up to 30 m from the existing ground level while a pumping well was installed upon completion of the soil investigation works. Based on the results recorded up to the 8th of December 2012, stabilized groundwater level was observed to range between 0.49 m MSL to -1.81 m MSL.

Water Supply: The Yangon City Development Committee (YCDC) has an overall responsibility for the management and distribution of water for Yangon City. Presently, YCDC's water supply is obtained from two main sources: (1) reservoir (Hlawga, Gyobu, Pugyi and Ngameoyeik reservoirs) and, (2) groundwater from YCDC's tube wells. Water from these sources is utilized to varying degrees. Areas not supplied with water from the YCDC rely on shallow surface wells and private boreholes. Water supply for the Project Site will be obtained from onsite borewells for both construction and operations due to the poor reliability of municipal supply. Permitting is part of the Planning Consent Application currently underway. The boreholes will be provided and operated by the Developer.

Hydrology: The Project Site lies along the catchment of the Pazundaung River which flows east of the site in a southerly direction to converge into the Yangon River. The Yangon River (also known as the Rangoon River or Hlaing River) is formed by the confluence of the Pegu and Myitmaka rivers and flows into the Gulf of Martaban which is part of the larger Andaman Sea. The river flows along a 40 km stretch flowing from southern Myanmar as an outlet of the Ayeyarwady River into the Ayeyarwady delta. A small portion of the Bago River (the estuary) lies within the Yangon Division. The Pazundaung Creek and Bago River joins the Yangon River and from there, flow towards the southwestern direction into Andaman Sea. ^[2]

4.3.6. Climate and Meteorology

4.3.6.1. Average Weather in Yangon

In Yangon, the wet season is oppressive and overcast, the dry season is muggy and partly cloudy, and it is hot year-round. Over the course of the year, the temperature typically varies from 67 °F to 97 °F and is rarely below 62 °F or above 101 °F.

Environmental Management Plan

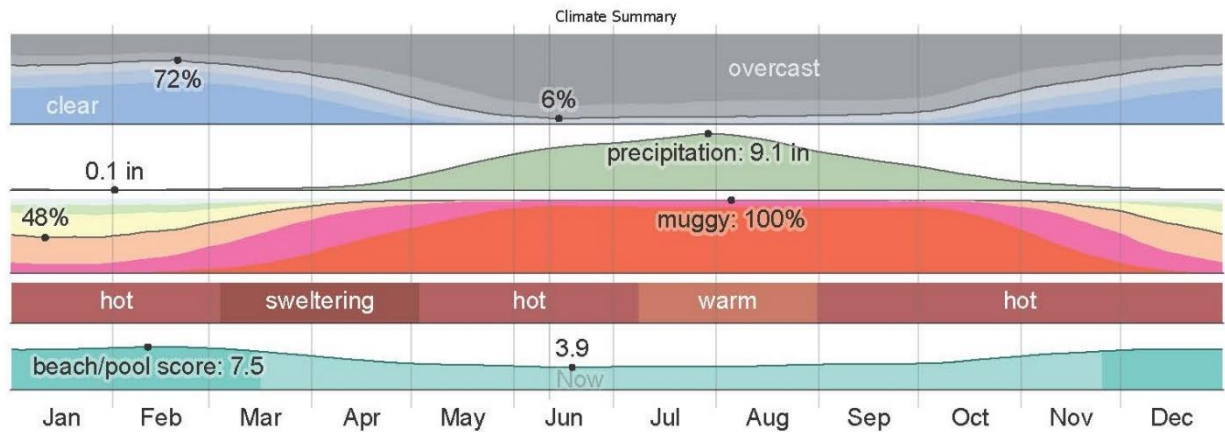


Figure 4-4 Climate Summary of Yangon Region

4.3.6.2. Temperature

The hot season lasts for 2.0 months, from March 2 to May 3, with an average daily high temperature above 95 °F. The hottest day of the year is April 11, with an average high of 97 °F and low of 78 °F.

The cool season lasts for 3.9 months, from June 2 to September 29, with an average daily high temperature below 87 °F. The coldest day of the year is January 10, with an average low of 67 °F and high of 88 °F.

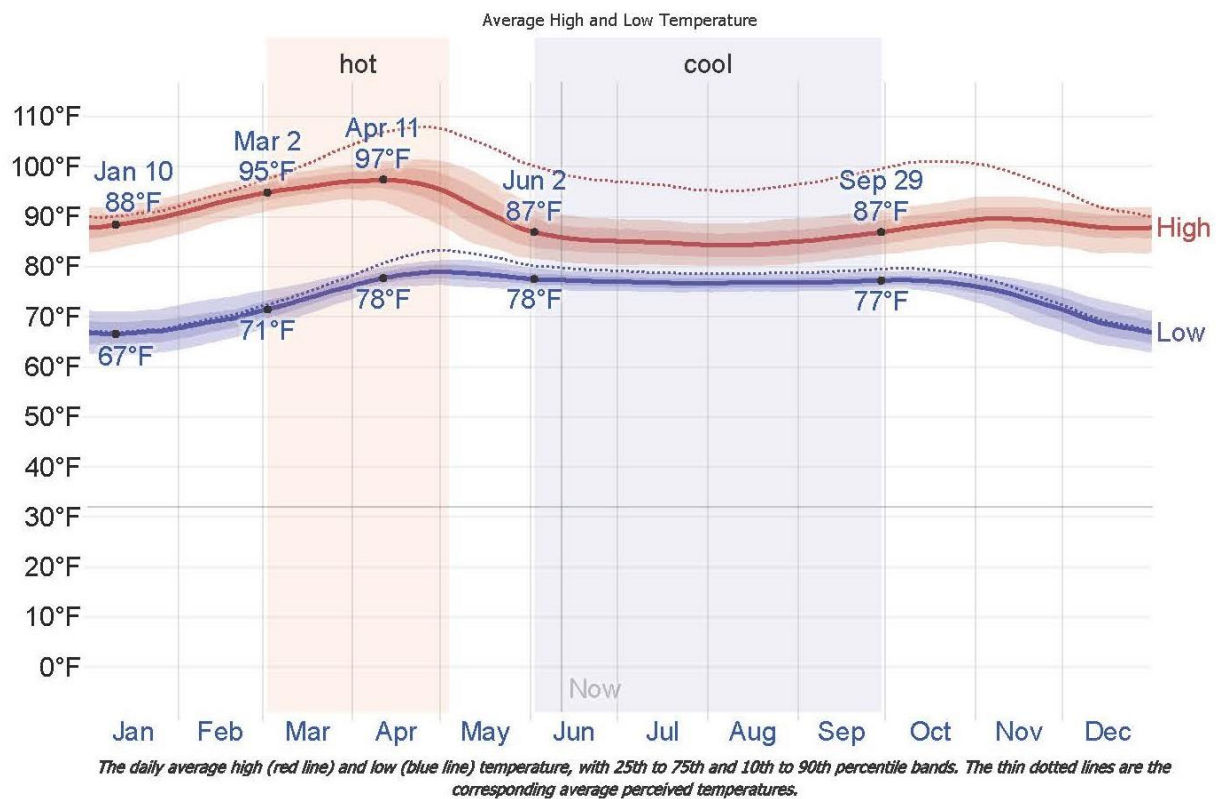


Figure 4-5 Average Temperature of Yangon Region

Environmental Management Plan

4.3.6.3. Clouds

In Yangon, the average percentage of the sky covered by clouds experiences extreme seasonal variation over the course of the year. In clearer part of the year in Yangon begins around November 2 and lasts for 5.6 months, ending around April 22. On February 20, the clearest day of the year, the sky is clear, mostly clear, or partly cloudy 72% of the time, and overcast or mostly cloudy 28% of the time.

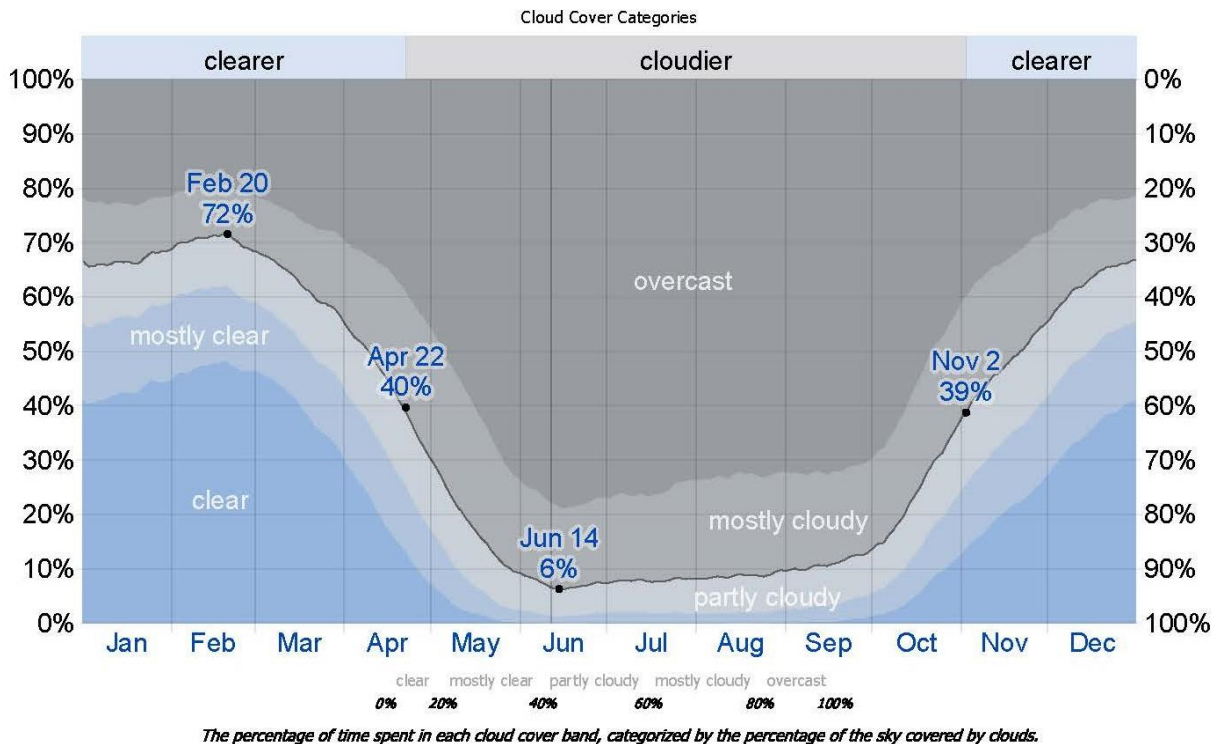


Figure 4-6 Cloud Cover Categories

4.3.6.4. Rainfall

To show variation within the months and not just the monthly totals, we show the rainfall accumulated over a sliding 31-day period centered around each day of the year. Yangon experiences extreme seasonal variation in monthly rainfall. The rainy period of the year lasts for 7.7 months, from April 5 to November 28, with a sliding 31-days rainfall of at least 0.5 inches. The most rain falls during the 31 days centered around July 30, with an average total accumulation of 9.1 inches. The rainless period of the year lasts for 4.3 months, from November 28 to April 5. The least rain falls around February 1, with an average total accumulation of 0.1 inches.

Environmental Management Plan

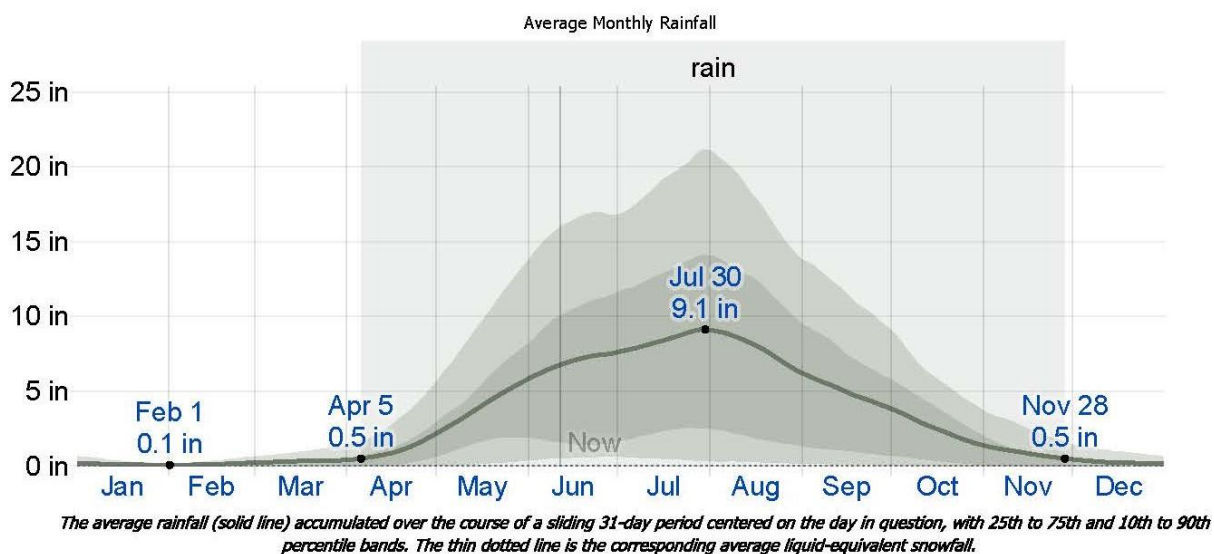


Figure 4-7 Average Monthly Rainfall at Yangon Region

Table 4-2 Annual rainfall and temperature

Year	Rainfall		Temperature	
	Raining day	Rainfall value (Inches)	Summer season Max (°C)	Winter season Min (°C)
2016	102	79.20	45°C	15°C
2017	101	138.85	42°C	18°C
2018	113	134.53	40°C	12.5°C
2019	112	122.35	45°C	15°C

Source: Department of Administrative Shwe Pyi Thar Township, Regional data (www.gad.gov.mm.com)

4.3.7. Temperature and Humidity

We base the humidity comfort level on the dew point, as it determines whether perspiration will evaporate from the skin, thereby cooling the body. Lower dew points feel drier and higher dew points feel more humid. Unlike temperature, which typically varies significantly between night and day, dew point tends to change more slowly, so while the temperature may drop at night, a muggy day is typically followed by a muggy night.

Yangon experiences extreme seasonal variation in the perceived humidity. The muggier period of the year lasts for 10 months, from February 22 to December 23, during which time the comfort level is muggy, oppressive, or miserable at least 61% of the time. The muggiest day of the year is August 5, with muggy conditions 100% of the time. The least muggy day of the year is January 11, with muggy conditions 48% of the time. In March 30, 2020, the weather condition of proposed project is 41.2 °C average temperature and 69.1 % average humidity as shown in Figure 4-8.

Environmental Management Plan

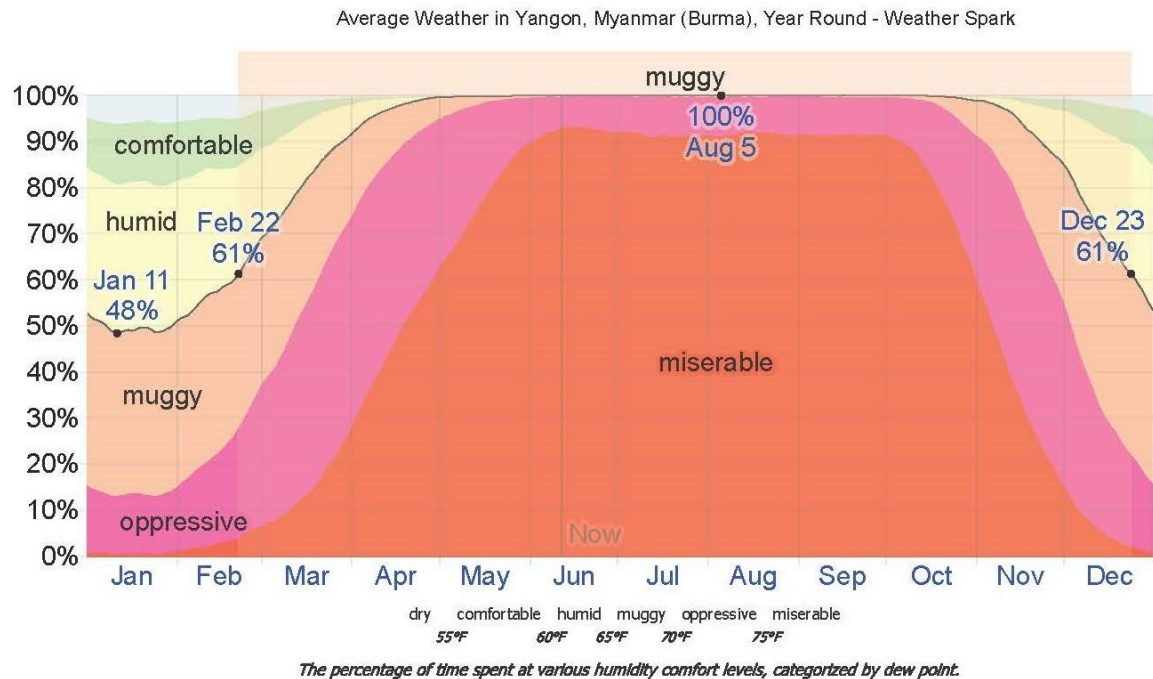


Figure 4-8 Humidity of Yangon

4.3.7.1. Wind

This section discusses the wide-area hourly average wind vector (speed and direction) at 10 meters above the ground. The wind experienced at any given location is highly depended on local topography and other factors, and instantaneous wind speed and direction vary more widely than hourly averages. The average hourly wind speed in Yangon experiences significant seasonal variation over the course of the year. The winder part of the year lasts for 4.1 months, from May 1 to September 4, with average wind speeds of more than 8.2 miles per hour. The windiest day of the year is June 24, with an average hourly wind speed of 10.6 miles per hour. The calmer time of year lasts for 7.9 months, from September 4 to May 1. The calmest day of the year is January 9, with an average hourly wind speed of 5.8 miles per hour.

Environmental Management Plan

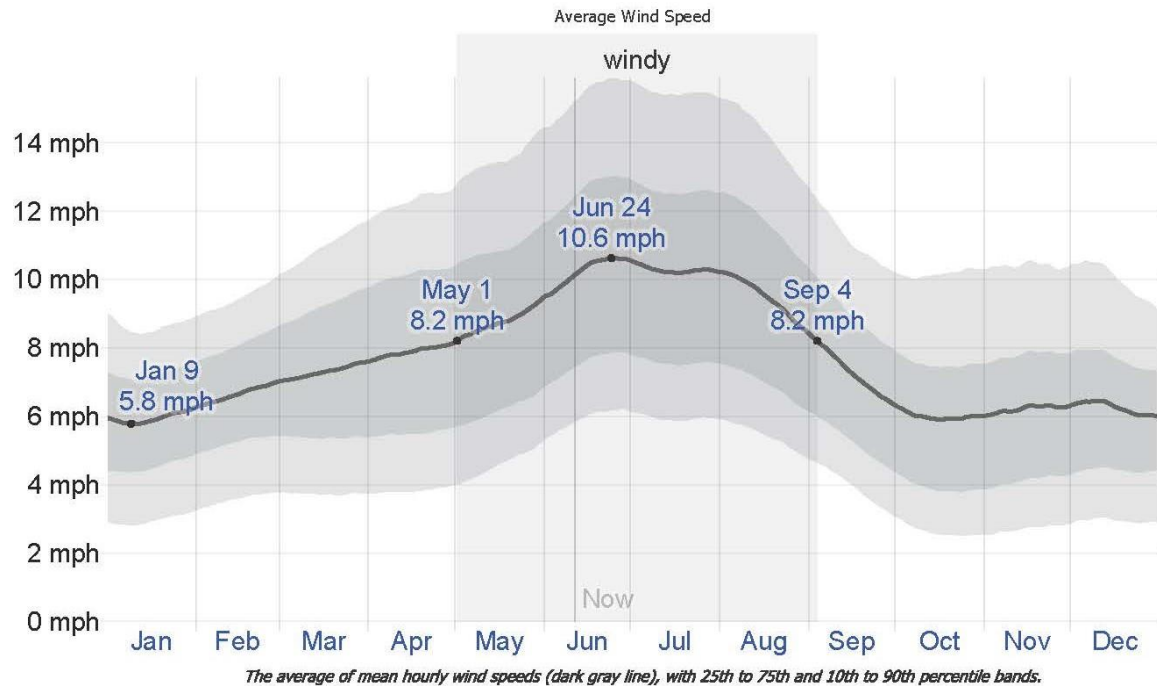


Figure 4-9 Average Wind Speed in Yangon

4.3.8. Indoor temperature and humidity

The indoor temperature and humidity condition during 7 January 2022 shows the average temperature of 32.44°C while the average humidity is 52.94 % as shown in Table 4-3.

Table 4-3 Relative humidity and temperature measure at factory

Date and Time	Description	Result value	Environmental parameter air station guideline
7 January 2022 (9:00 am to 4:00 pm)	Relative Humidity RH %	52.94 (%)	Present condition
	Temperature	32.44 °C	Present condition



Figure 4-10 Humidity and Temperature Measurement Photo

Environmental Management Plan

4.3.9. Air Quality

To determine the existing baseline ambient air quality status within the project site on 5 June 2020, 8-hours of working period air pollutants level, which include dust PM₁₀ and PM_{2.5} and gases (SO₂, NO₂) were measured at the selected site using the AQM-09 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). The measurement location point is situated at latitude 16°56'17.42"N and longitude 96° 4'59.11"E.

It was observed that the air quality of particulate matter (PM₁₀ and PM_{2.5}) are exceeded from the National Environmental Quality (Emission) Guideline and gases level of Nitrogen Dioxide (NO₂) and Sulphur Dioxide are within the NEQ Guideline.^[4]

Table 4-4 Observed air quality results

Parameters	Observed value	Guideline value	Unit	Organization	Working Period
PM ₁₀	60.13	50	µg/m ³	NEQG	8 hrs
PM _{2.5}	56.86	25	µg/m ³	NEQG	8 hrs
SO ₂	171.04	500	µg/m ³	NEQG	8 hrs
NO ₂	11	200	µg/m ³	NEQG	8 hrs
O ₃	77.62	100	µg/m ³	NEQG	8 hrs
CO	0.34	10	µg/m ³	NEQG	8 hrs

NEQ = National Environmental Quality (Emission) Guideline



Figure 4-11 Air Quality Measurement Photos

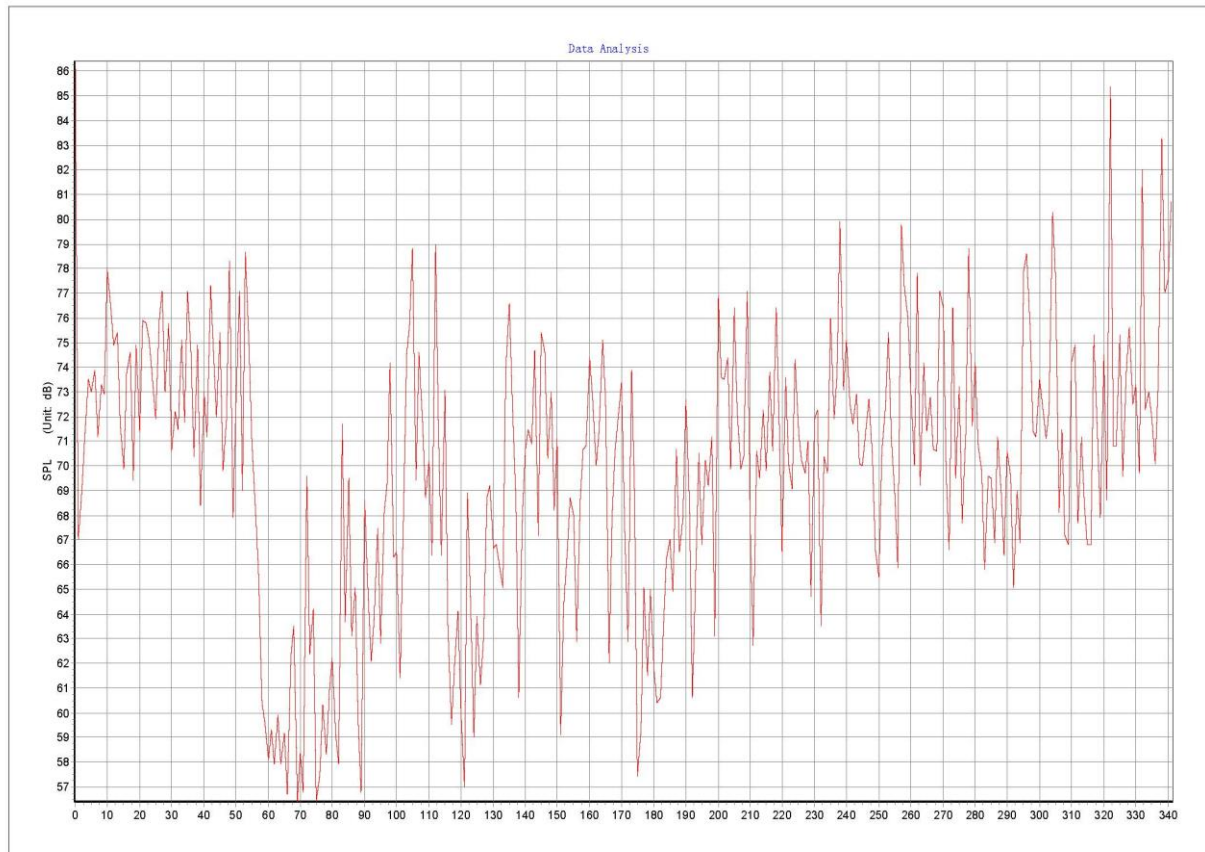
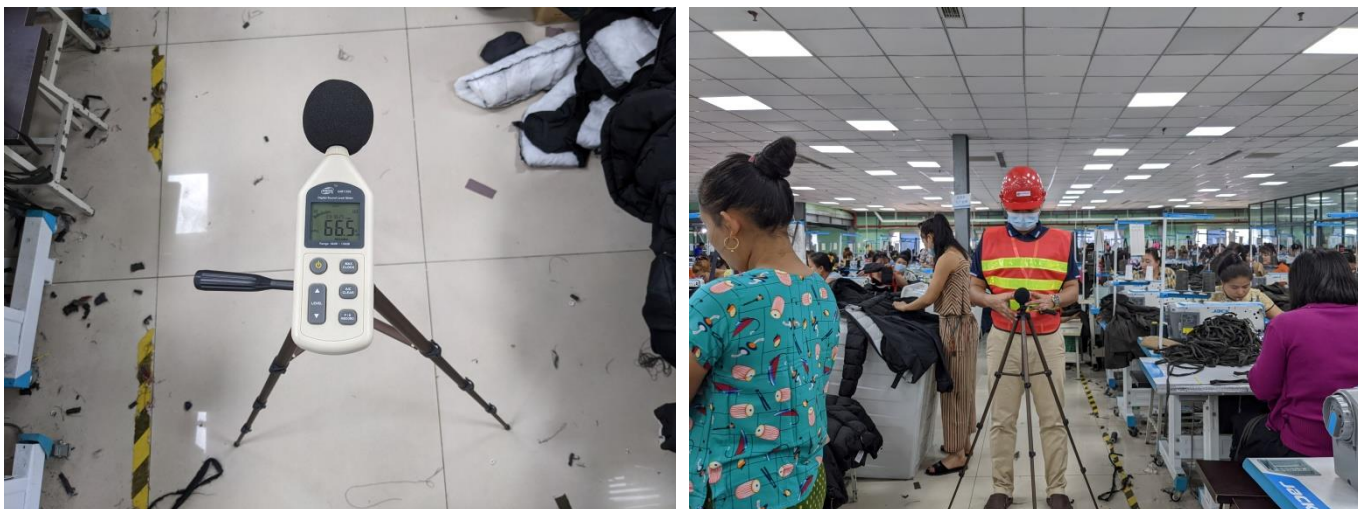
4.3.10. Noise

The Noise level was measured by using Digital Sound Level Meter for working hours on 7 January 2022. The average noise level in the project site area is presented in Table 4-5 compared with NEQ guideline. However, according to the Noise source monitoring at operation area (inside the production sector) of noise level is within the acceptable level of National Environmental Quality (Emission) Guideline. ^[4]

Environmental Management Plan

Table 4-5 Noise level measurement result

Date and Time	Location	GPS Value	Result Value	NEQ Guideline
7 January 2022 (10:00 AM to 4:00 PM)	Operation Area	16°56'17.65"N 96°5'0.38"E	69.79 dBA	70 dBA

**Figure 4-12 Noise level result graph****Figure 4-13 Sound level measurement photo**

Environmental Management Plan

According to the monitoring results, Jiangsu Soho (Myanmar) Garment Factory's noise level is within the NEQ guideline. However, in that factory ought to prepare and use the ear protection equipment to all labors.

4.3.11. Light

Activities of the workers in the garment factory are highly dependent on the quality of light. Therefore, the consultant conducted the light measurement in the garment factory is presented in Table 4-7. The illustrates the recommended illumination and limiting glare index applicable to typical works (fairly severe to very severe tasks) in garments factory is provided in Table 4-6.

Appropriate lighting is the need for every department, irrespective to the task being handled. Although, there are some areas where focus on maintaining proper illumination is very crucial in a garment factory, like the inspection points (on-floor and in stores), sampling, and the finishing section, as these areas are crucial for the quality of the production. The tasks involved in these areas require high levels of worker focus and accurate lighting to ensure lower errors and defects passing on to the next stage.

However, 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 4-6 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 (e.g. drawing office, sewing)	600	19-22
Severe, prolonged task, very small detail (e.g. fine assembly, hand tailoring)	900	16-22
Very severe, prolonged task, very small detail (e.g. gem cutting, hosiery mending, gauging very small parts)	1,300 -2,000	13-16

Source: Koenigsberger, et al. 1975



Figure 4-14 Light quality measurement

Environmental Management Plan

Table 4-7 Result of light measurement in Jiangsu Soho (Myanmar) Garment factory

No	Location	Measure value (Lux)	Standard*
1	Cutting Area	632	1000
2	Warehouse	67.2	300
3	Quality Control	953	600
4	Sewing Area	746	600
5	Packing Area	898	600

* Lighting standards and codes usually provide recommended illuminance ratios between the task area and its surroundings (EN 12464-1 2002) (CIBSE 1997) (IESNA 2000, 676708).

According to the monitoring results, Jiangsu Soho (Myanmar) Garment factory light level is normal condition that's why some places need to reduce the light level and ought to put on the electricity bulb more over the higher places. On the other hand, some places are a bit lower that is why which need to change like a more powerful light bulb in that light level lower places. In these ways is able to adjust the light pollution of this factory.

4.3.12. Drinking Water Quality Test

Drinking water quality has been tested at the Iso Tech Laboratory with respect to WHO Guidelines for Drinking Water Standard. According to the drinking water analysis results see in Table 4-8 (**Appendix**), all of the lists of parameters are within the limit of NEQ (emission) guideline.

Table 4-8 Drinking Water quality laboratory results

No.	Parameter	Unit	Water result	Standard
1.	pH		7.1	6.5 – 8.5
2.	Color (True)	TCU	Nil	15 TCU
3.	Turbidity	NTU	Nil	5 NTU
4.	Conductivity	Micro S/cm	64	
5.	Total Hardness	mg/l as CaCO ₃	10	500 mg/l as CaCO ₃
6.	Calcium Hardness	mg/l as CaCO ₃	6	
7.	Magnesium Hardness	mg/l as CaCO ₃	4	
8.	Total Alkalinity	mg/l as CaCO ₃	26	
9.	Phenolphthalein Alkalinity	mg/l as CaCO ₃	Nil	
10.	Carbonate (CaCO ₃)	mg/l as CaCO ₃	Nil	
11.	Bicarbonate (HCO ₃)	mg/l as CaCO ₃	26	
12.	Iron	mg/l	0.07	0.3 mg/l
13.	Chloride (as CL)	mg/l	13	250 mg/l
14.	Sodium chloride (as NaCL)	mg/l	21	
15.	Sulphate (as SO ₄)	mg/l	Nil	500 mg/l
16.	Total Solid	mg/l	33	1500 mg/l
17.	Total Suspended Solids	mg/l	1	
18.	Total Dissolved Solids	mg/l	32	1000 mg/l

Environmental Management Plan

No.	Parameter	Unit	Water result	Standard
19.	Manganese	mg/l	Nil	0.05 mg/l
20.	Phosphate	mg/l	Nil	
21.	Phenolphthalein Acidity	mg/l	2	
22.	Methyl Orange Acidity	mg/l	Nil	
23.	Salinity	ppt	0.1	

National Environmental Quality (Emission) Guideline

4.4. BIOLOGICAL COMPONENT

There is no forest area, wildlife and wetlands within or around the project compound. The proposed project site is not located in or near a sensitive ecosystem as the proposed project area is situated in the Industrial Zone Part (3), Shwe Pyi Thar Township. Moreover, desktop review and site visits confirmed the absence of unique or ecologically significant flora and fauna. However, the nearest water body is the Haling River.

4.5. SOCIO-ECONOMIC COMPONENT**4.5.1. Population**

Jiangsu Soho (Myanmar) Garment factory is located across Shwe Pyi Thar Township in Yangon Region. In 2017, the population of Shwe Pyi Thar Township is about 277,033 people as present in Table 4-9. ^[1]

Table 4-9 Population of Males and Females at Shwe Pyi Thar Township (2019)

Item	Older 18 year			Younger 18 year			Total		
	Males	Females	Total	Males	Females	Total	Males	Females	Total
Urban	32,542	33,564	66,106	78,474	91,234	169,708	111,016	124,798	235,814
Rural	5,479	5,587	11,066	14,092	16,061	30,153	19,571	21,648	41,219
Total	38,021	39,151	77,072	92,566	107,295	339,416	130,587	146,446	277,033

Source: Department of Administrative Shwe Pyi Thar Township, Regional data (www.gad.gov.mm.com)

4.5.2. Religion

The different kinds of religion present in Shwe Pyi Thar Township are shown in Table 4-10. More than 95% of the people living in the township are Buddhists. ^[1]

Table 4-10 Religion in Shwe Pyi Thar Township (2019)

Township	Buddhist	Christian	Hindu	Muslim	Other	Total
Shwe Pyi Thar	261,753	7,101	2,716	5,263	200	277,033

Source: Department of Administrative Shwe Pyi Thar Township, Regional data (www.gad.gov.mm.com)

4.5.3. Local Economy

Among regional towns, Shwe Pyi Thar Township has a variety of businesses and services operating in the community with other businesses/services, based in the region. Most of the source of livelihood in the Township is employment of factory. Services and facilities available include:

Environmental Management Plan

- post office
- beauticians
- butcher
- hairdressers
- furniture and electrical store
- restaurants
- cafes
- shoe and clothing shops
- industrial services
- pharmacy
- veterinarian
- bus service
- gift stores
- music store
- pubs and bars
- florist

4.5.4. Public Infrastructure and Access

4.5.4.1. Communication and Transportation

Major transportation route in Shwe Pyi Thar Township are port and car road as presented in Table 4-11. ^[1]

Table 4-11 Transportation route

Categories	Township		Miles
	From	to	
Railway (Yangon-Pyay railway)	Hlwaga	1 ward	4/2
Inland water way	18 ward	Hlwaga	4.2
Bus line (39, 40, 42, 44, 65, 69, 72, 73, 74, 77)	Hlwaga	Downtown area	
Car (No 4. Main road)	1 ward	Hlwaga	

Source: Department of Administrative Shwe Pyi Thar Township, Regional data (www.gad.gov.mm.com)

4.5.4.2. Electricity

The electricity demand of Shwe Pyi Thar Township is higher and higher due to the normally increased in population and infrastructure. ^[1]

4.5.4.3. Education

Location of major schools were situated i.e. basic education primary school (B.E.P.S.), basic education middle school (B.E.M.S), basic education high school (B.E.H.S) and university, in the Shwe Pyi Thar Township. The name and the located village tract/ ward of schools are described in Table 4-12. ^[1]

Environmental Management Plan

Table 4-12 List of major school in Shwe Pyi Thar Township

No.	Name of School	Location
1	Computer University Yangon	Kyaung Gone Village Tract
2	BEHS (1)	No 6. Ward
3	BEHS (2)	Hlawga Village Tract
4	BEHS (3)	No 8. Ward
5	BEHS (4)	Zee Gone Village Tract
6	BEMS (Branch) (2)	No 19. Ward
7	BEMS (Branch) (3)	No 5. Ward
8	BEMS (Branch) (4)	No 9. Ward
9	BEMS (Branch) (8)	No 23. Ward
10	BEMS (1)	Hlawga Village
11	BEMS (5)	No 15. Ward
12	BEMS (6)	No 17. Ward
13	BEMS (7)	No 9. Ward
14	BEMS (9)	No 11. Ward
15	BEMS (10)	No 14. Ward
16	BEPS (1-43)	Shwe Pyi Thar Township

Source: Department of Administrative Shwe Pyi Thar Township, Regional data (www.gad.gov.mm.com)

4.5.4.4. Health Status

The diseases of high prevalence reported in 2013 are Tuberculosis (TB), followed by Acute Respiratory Infection (ARI), Diarrhea, TB and snakebites. With reference to the Township Health Profile 2014 of Shwe Pyi Thar Township, no accidental work injuries reported to the township hospital in 2013. The common diseases are shown in Table 4-13.

Table 4-13 Common Diseases in the Shwe Pyi Thar Township

Disease	Shwe Pyi Thar Township	
	Morbidity	Mortality
Malaria (Per 100000P)	3.2	-
ARI (Per 100000<5Children)	681	-
Diarrhea (Per 100000P)	126	-
TB (Sputum+)(Per 10000P)	152	-

Table 4-14 Lists of hospital in the Shwe Pyi Thar Township

Hospital Name	Beds/Services	Responsible
Township Hospital	25	Government

Source: Department of Administrative Shwe Pyi Thar, Regional data (www.gad.gov.mm.com)

4.6. CULTURAL AND VISUAL COMPONENTS

Shwe Pyi Thar Township is growing into a busy and vibrant community. The population fluctuates; however, there has been steady growth over the last decade. It tends to be a stopover on a journey rather than a destination. It has a number of sites that are interesting; however, there is no main attraction. Visitors to the town are generally visiting for work, investment or family reasons. ^[1]

5. ENVIRONMENTAL IMPACT AND MITIGATION MEASURES

5.1. METHODOLOGY FOR THE ASSESSMENTS

The assessment of each impact is based on consideration of the magnitude, duration, spatial and frequency of activities, which are going to be carried out during three phases and characteristics of the project site. The assessment is qualitative and the significance of each impact is classified into 5 categories in overall.

The following methodology has been applied to assess the environmental impacts of the factory mainly on air, water, land, biodiversity, including human beings. Each source of impact has been assessed by four parameters, magnitude, duration, extent and probability and each assess point have 5 scales as mentioned in Table 5-1.

Table 5-1 Impact assessment parameters and its scale

Assessment	Scale				
	1	2	3	4	5
Magnitude (M)	Insignificant	small and will have no effect on working environment	Moderate and will result in minor changes on working environment	High and will result in significant changes on working environment	Very high and will result in permanent changes on working environment
Duration (D)	0 - 1 year	2 - 5 year	6 - 15 year	Life of operation	Post Closure
Extent (E)	Limited to the site	Limited to the local area	Limited to the region	National	International
Probability (P)	Very improbable	Improbable	Probable	Highly probable	Definite

Then, the Significant Point (SP) calculated by following formula.

$$\text{Significant Point (SP)} = (\text{Magnitude} + \text{Duration} + \text{Extent}) \times \text{Probability}$$

Impact Significance: Based on calculated significant point, impact significance can categorize as follows:

Significant Point (SP)	Impact Significance
<15	Very Low
15-29	Low
30-44	Moderate
45-59	High
60	Very high

5.2. IMPACT IDENTIFICATION

The development of infrastructure for the proposed project likely to happen changes in the local environment terms of physical, biological and socio-economic aspects along with the perspective on both positive and negative impacts. The potential environmental impacts brought by various activities of proposed factory project will be identified and judged by site surveying with checklist, meeting with client team, including plant manager and supervisor, representatives from the factory operators and assessing the environmental baseline information for operation and decommissioning phases along with its mitigation measure.

5.2.1. Positive Impact

During the project implementation, local people can get job opportunities in administrative sectors, office works, transportation sectors, skill and unskilled workers, etc. Due to the implementation of the project, there will be employment opportunities especially for workers from the local community. Employees will also improve more in their professional knowledge and skills. The net effect of job creation is the improvement of the livelihoods and living standards of the beneficiaries and poverty reduction, development of local people's livelihood. Cause of the proposed project is located in Shwe Pyi Thar Industrial Zone (3), there may have business opportunities to local people. Local people can have a market by selling foods, snacks and drinks nearby the factory.

5.2.2. Negative Impact

The following Figure 5-1 briefly described the potential negative impacts of the proposed project. There are four main types of impacts; impact on environmental resources, impact on ecological resource, impact on human and impact of waste generation.

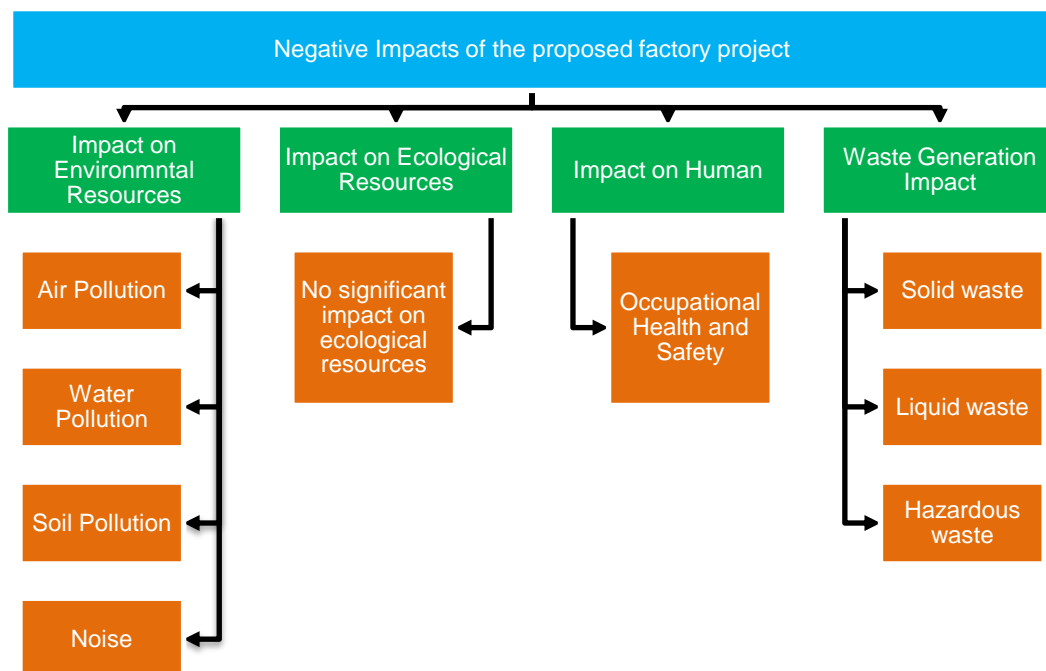


Figure 5-1 Potential negative impact affect from proposed factory project

5.3. POTENTIAL ENVIRONMENTAL IMPACT DURING CONSTRUCTION & DECOMMISSIONING PHASE

Construction phase: The project factory is already constructed during environmental assessment study and site visit. Therefore, the proposed project is located in industrial zone and already finished the construction, the potential impact on environment is not assessed and affected must be caused the construction period.

Decommissioning phase: The proposed duration of the investment shall be 30 years. The term of the Lease shall be initial 30 years commencing from the date of signing of the Lease Agreement between Local owner and Jiangsu Soho (Myanmar) Garment Company Limited. for proposed project site for 1.252 acres (5066.6642 sqm) of land. The project of land and building will be restitution to land owner after close the operation. Therefore, the assessment study cannot be need for environmental impact assessment during decommission phase.

These two phases of operation shall be represented by land owner. If the owner will be demolished their factory, they will need mitigation and monitoring plan for environmental impact. Therefore, Myanwei's environmental assessment team presented for monitoring plan during decommissioning phase.

5.4. PROJECT ACTIVITIES AND ITS SIGNIFICANT IMPACTS

The relative importance 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.

Environmental Management Plan

The project activities, their impacts and significance of impact are provided in Table 5-2.

Table 5-2 Evaluation and Perdition of Significant Impacts and Mitigation Measures on Operation phase

Categories	Source of Impact	Significant of Potential Impacts					Impact Significance	Reason	Mitigation Measure
		M	D	E	P	SP			
Impact on Environmental Resource									
Air	Dust and GHGs emission from vehicles used for transporting raw materials and final products Emission of smoke from emergency diesel generator and vehicle movement	2	4	1	3	21	Low	Air pollution in atmosphere. Inhaling them can increase the chance you'll have health problems. People with heart or lung disease, older adults and children are at greater risk from air pollution.	To control air pollution, the vehicles, generators and machineries have to check and maintain regularly. Ensuring vehicles, compressor and generator are well maintained. The factory has planted trees to reduce carbon emission and minimize air pollution
Soil	Engine oil leaks, spills at diesel storage and during fuel refueling.	2	4	1	1	7	Very Low (Insignificant)	The factory compound area was paved with concrete and hence, contamination due to the oil spillage at this area is insignificant.	No Mitigation Measure
Water	Dormitory Cleaning and Kitchen	1	4	1	1	6	Very Low (Insignificant)	The factory not generated wastewater from production process on CMP basic	No Mitigation Measure
Noise and Vibration	Generating noise from the production machinery	3	4	1	3	24	Low	The factory not operate heavy machinery The major noise source of CMP basic operation activities such as cutting, sewing and packaging by respective machines. There is insignificant impact on surrounding environment.	Should be built individual room like as generator room, Low noise equipment should be used Should be provided the noise covering equipment or personal protective equipment (PPE)

Environmental Management Plan

Categories	Source of Impact	Significant of Potential Impacts					Impact Significance	Reason	Mitigation Measure
		M	D	E	P	SP			
Impact on Ecological Resources									
Flora and fauna on terrestrial and aquatic life	Operation of the garment factory	1	4	1	1	6	Very Low Insignificant	Not Significant Impact on Ecological Resources	No Mitigation Measure
Impact on Human									
Fire	Poor electrical installations Waste disposed area raw materials and chemical storage	3	4	1	4	32	Moderate	Serious damage to property and even injury and death	To provide fire extinguishers, fire hose reels and fire hydrants on the walls of the factory for fire emergency cases. Regular inspection for existing firefighting equipment must be done. In case of fire emergency, water storage tank for fire frightening. The emergency fire alarms are installed at the factory for alerting the workers in case of fire. The main entrances and route for emergency cases of the factory must not be blocked with materials or machines for fire emergency cases.
Occupational Safety	Accidental cases cause by operating machines. Unloading, mixing, cutting, pressing and packaging activities. Accidental cases of thermic fluid heater	3	4	1	4	32	Moderate	Accident in workplace (physical injuries or even death) can occur during operation.	First aid training, safety training, firefighting training or other essential training for machinery handling must be provided for emergency cases of workers. According to the observed light intensity values, the proponent provides sufficient lighting for workers for safe working and reducing optical problems of the workers. Personal Protective Equipment (PPEs) like earmuffs, safety gloves, helmets and

Environmental Management Plan

Categories	Source of Impact	Significant of Potential Impacts					Impact Significance	Reason	Mitigation Measure
		M	D	E	P	SP			
									goggles are provided for each department. To prevent electric shock hazards, electrical maintenance staff (handyman) is to be assigned to do regular inspections and take preventive measures.
Health	Influx of people Noise from the generating of the emergency generators	2	4	1	2	14	Very Low Insignificance	Change in demographic structure, new diseases form immigrant workers To cause a range of health problems ranging from stress, poor concentration, productivity losses in the workplace, and communication difficulties and fatigue from lack of sleep, to more serious issues	Manage the drainage systems of the factory to prevent health risk of the workers. The maximum allowable noise level for workers is 90dB(A) for 8hours exposure a day. Thus, adequate protective noise impact measures in the form of ear muffs/ear plugs to the workers working in high noise areas.
Waste Generation Impact									
Solid Waste	Residual pieces of fabric scraps from the production lines Waste from packaging materials Waste from kitchen, dormitory and office.	3	4	1	4	32	Moderate	Surrounding environmental pollution and soil contamination	Provides separate garbage bins at each building. All of the solid wastes will be collected separately in garbage based on their types and stored in relevant separated waste storage area Final wastes should be disposed by using YCDC's service.
Liquid Waste	Septic system and sewage. Domestic liquid waste	3	4	2	2	18	Low	Contamination of soil, surface water, ground water	Regular inspection and cleaning, oil traps, septic tank and adequate covers for all storage and waste disposal areas

Environmental Management Plan

Categories	Source of Impact	Significant of Potential Impacts					Impact Significance	Reason	Mitigation Measure
		M	D	E	P	SP			
	disposal from office, kitchen and dormitory.								can decrease these contaminations.
Hazardous Waste	Used oil and lubricant discharged from the maintenance of vehicles and machines.	2	4	1	2	14	Very Low Insignificance	Reduce the risk of contamination from fuels, oils and hazardous wastes Response effectively to incident and accident	Proper inspection and maintenance in storage of hazardous waste. The hazardous wastes are transported by specially licensed carriers and disposed in a licensed facility (e.g., DOWA and YCDC)
Natural Disaster (Earthquakes, Floods, landslides and cyclone)									Preserve relevant records and equipment for the subsequent inquiry into the cause and circumstances of the emergency

Table 5-3 Evaluation and Predication of Significant Impacts and Mitigation Measure on Decommissioning Phase

Categories	Source of Impact	Significant of Potential Impacts					Impact Significance	Reason	Mitigation Measure
		M	D	E	P	S			
Air	Demolish of buildings and related materials Transportation of demolished materials	3	1	1	4	20	Low	Emissions of particulate matters and carbon dioxide gases into the air	Spray water twice a day Cover mesh trap around the decommission area Install shading net about 2 meters above temporary fence of decommission area Carry broken material with cover by canvas.
Water pollution	Sewage form decommissioning workers Demolition machinery	3	1	1	3	15	Low	Contamination of surface water and ground water	Systematically demolish the septic tanks.

Environmental Management Plan

Categories	Source of Impact	Significant of Potential Impacts					Impact Significance	Reason	Mitigation Measure
		M	D	E	P	S			
	equipment								
Soil	Demolish of buildings and related materials Transportation of demolished materials	3	1	1	3	15	Low	Contamination of soil	Manage the spillage of oil and diesel and sewage.
Noise and Vibration	Decommission activities Transportation of demolished materials	3	1	1	3	15	Low	Noise pollution to the surrounding	Carry out the activities during day time. Maintain the machines and vehicles to reduce noise pollution. Provide the ear plugs to the workers.
Waste disposal	Demolished debris such as bricks, concrete materials	2	1	1	3	12	Very Low	Dumping to the surrounding environment	Recyclable materials and dispose to the define areas.
Hazardous waste	Used lubricants from decommissioning vehicles and machines	2	1	1	3	12	Very Low	Spillage of lubricant	Manage the disposal way of hazardous waste.
Occupational Health and Safety (Accidents, Injuries)	Decommissioning activities Transportation of demolished materials	3	1	2	3	18	Low	Injuries and accidents	Provide protective fencing or demarcation with tape at the boundaries of dangerous / hazardous zone and the appropriate warning signs, marking and safety signs and installation of the lost time injury notice board. Clean up excessive waste debris and liquid spills regularly. Use the third-party expert assisted by trained personnel to identify and remove hazardous materials.

The assessment of each impact is based on consideration of the magnitude, duration, extent and probability of activities, which are going to be carried out during operation phases. In operation phase, there are 3 moderate significance impact on human and waste generation (Fire, occupational safety and solid waste). 3 low significant impacts on environmental resources and waste (air, noise, vibration and liquid

Environmental Management Plan

waste). 5 very low significant impact on environmental resources, ecological, human and waste generation (soil, water pollution, flora, fauna, health and hazardous waste). In decommissioning phase 2 very low significant impact on environment and human (waste disposal and hazardous waste). 5 low significant impacts on environmental and human (air, water pollution, soil contamination, noise and vibration and occupational health and safety). Significance impacts on environmental and human and detail impact assessment for operation phases and decommissioning can be seen in above tables. All of the impacts during operation phases and decommissioning phase can be minimized by using mitigation measures and implementing Environmental Management Plan.

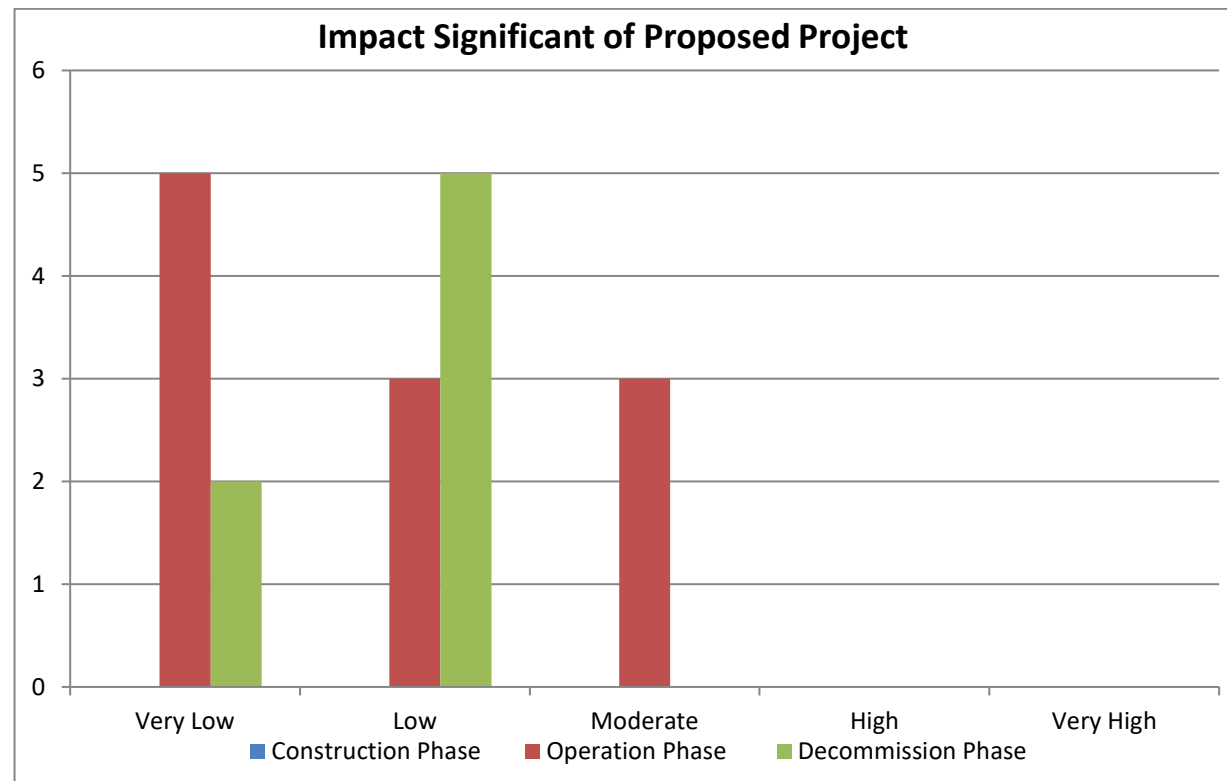


Figure 5-2 Comparison of Impact Significant of Proposed Project

6. ENVIRONMENTAL MANAGEMENT ACTION

The EMP for Jiangsu Soho (Myanmar) Garment Company Limited has been prepared to address potential issues based upon discussion with factory management, workers, local community view, stakeholder consultation and the site visit. The EMP is additional to and complements the factory's safety management system. The following environmental impact issues which require environmental management plans based upon the potential impacts activities of Jiangsu Soho (Myanmar) Garment Company Limited are as follows:

6.1. AIR POLLUTION/ DUST MANAGEMENT PLAN

Objective	<ul style="list-style-type: none"> ➤ To minimize the adverse impact to air quality caused by stack gas emission from generator and also dust management generated from vehicular movement. ➤ To comply with relevant government rules 	
Relevant Government Law and Rule	<ul style="list-style-type: none"> ➤ National Environmental Quality (Emission) Guideline 2015, ➤ Motor Vehicles Act (2015), ➤ Boiler Law (2015) 	
Time Frame	➤ Entire life spans of proposed project operation	
Management Action	<ul style="list-style-type: none"> ➤ Must be plant around the proposed project to reduce carbon emission ➤ Should be prohibited burning of waste material at the proposed project site ➤ Must be control air pollution, the vehicles, generators and machineries have to check and maintain regularly. ➤ The factory should use chimney for generator through which the flue gas is emitted for reducing the impact of stack emission on environment. ➤ Must be ensuring vehicles, compressor and generator are well maintained. 	
Monitoring and Reporting	Frequency	Biannually
	Monitoring Point	Indoor and Outdoor of proposed project
	Parameters	PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , O ₃ , CO
Estimated Cost	1,000,000 Kyats per year	
Responsible Person	Management of the proposed factory; <ul style="list-style-type: none"> ▪ Head of maintenance: Total implementation of above of air pollution management plan ▪ Production manager: Air quality in the production area is good 	

Environmental Management Plan

	<p>enough</p> <ul style="list-style-type: none"> ▪ Manager: To hire organization/ independent third-party testing air quality ▪ EHS officer: Monitor the hygiene of ambient air quality in surrounding of the factory
--	---

6.2. NOISE MANAGEMENT PLAN

Objective	<p>➤ To maintain low noise exposures, such that human health and well-being are protected. The specific objectives of noise management are to develop criteria for the maximum safe noise exposure levels, and to promote noise assessment and control as part of environmental health programmes.</p>	
Relevant Government Law and Rule	<p>➤ National Environmental Quality (Emission) Guideline 2015</p>	
Time Frame	<p>➤ Throughout the project life</p>	
Management Action	<p>➤ Building noise insulated generator room and ensure satisfactory maintenance of relevant equipment</p> <p>➤ Impose speed limit to track and vehicles at the transportation route.</p> <p>➤ Provide sufficient personal protective equipment (PPE) at the work place</p> <p>➤ All the related personnel will be provided proper training about the relevant issues and ensure PPE wear during working in noisy area.</p>	
Monitoring and Reporting	Frequency	Biannually
	Monitoring Point	Two points in operation area (especially cutting and sewing)
	Parameters	Sound Decibel
Estimated Cost	500,000 Kyats per year	
Responsible Person	HSE Manager or Environmental Management Team of Jiangsu Soho (Myanmar) Garment Company Limited.	

6.3. FIRE MANAGEMENT PLAN

Objective	<p>➤ To ensure that fire control practices are implemented on site to minimise the risk of fire from site operations and bush fires</p>
Relevant Government Law and Rule	<p>➤ Myanmar Fire Brigade Law 2015</p>

Environmental Management Plan

Time Frame	➤ Entire life spans of proposed project operation
Management Action	<ul style="list-style-type: none"> ➤ Must be provide fire extinguishers, fire hose reels and fire hydrants on the walls of the factory for fire emergency cases. ➤ Must be indicated the emergency exit and assembly point in public area. ➤ Regular inspection for existing firefighting equipment must be done. In case of fire emergency, water storage tank for fire frightening. ➤ The emergency fire alarms are installed at the factory for alerting the workers in case of fire. ➤ The main entrances and route for emergency cases of the factory must not be blocked with materials or machines for fire emergency cases.
Monitoring and Reporting	To check monthly Visual inspection, Firefighting equipment (fire extinguish, firefighting hose, portable fire pumps, fire hose reels, fire monitor and firefighting nozzles)
Estimated Cost	1,200,000 Kyats per year
Responsible Person	HSE Manager, Operation Manager or Environmental Management Team of Jiangsu Soho (Myanmar) Garment Company Limited.

6.4. OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT PLAN

Objective	➤ To provide a broad framework for improving standards of workplace health and safety to reduce work-related injury and illness.
Relevant Government Law and Rule	➤ Public Health Law (1972), Prevention and Control of Communicable Diseases Law 1995 (Amendment 2011), Occupational Safety and Health Law (2019)
Time Frame	➤ Entire life spans of proposed project
Management Action	<ul style="list-style-type: none"> ➤ First aid training, safety training, firefighting training or other essential training for machinery handling must be provided for emergency cases of workers. ➤ According to the observed light intensity values, the proponent provides sufficient lighting for workers for safe working and reducing optical problems of the workers. ➤ Personal Protective Equipment (PPE) like earmuffs, safety gloves, helmets and goggles are provided for each department. ➤ To prevent electric shock hazards, electrical maintenance staff (handyman) is to be assigned to do regular inspections and take preventive measures. ➤ Manage the drainage systems of the factory to prevent health risk of the

Environmental Management Plan

	<p>workers.</p> <ul style="list-style-type: none"> ➤ The maximum allowable noise level for workers is 90dB(A) for 8hours exposure a day. Thus, adequate protective noise impact measures in the form of ear muffs/ear plugs to the workers working in high noise areas.
Monitoring and Reporting	<ul style="list-style-type: none"> ➤ Weekly check fire extinguishers and water hydrant in position ➤ Daily inspect that all fire exist are open ➤ Servicing fire extinguisher and records accidents
Estimated Cost	1,000,000 Kyats per year
Responsible Person	HSE Manager, Operation Manager or Environmental Management Team of Jiangsu Soho (Myanmar) Garment Company Limited.

6.5. SOLID WASTE MANAGEMENT PLAN

Objective	<ul style="list-style-type: none"> ➤ To assess the activities involved for the proposed and determine the type, nature and estimated volumes of waste to be generated ➤ To identify any potential environmental impacts from the generation of waste at the site
Relevant Government Law and Rule	<ul style="list-style-type: none"> ➤ Yangon City Development Committee Law (2018), National Waste Management Strategy and Action Plan (Draft 2018)
Time Frame	<ul style="list-style-type: none"> ➤ Entire life spans of proposed project
Management Action	<ul style="list-style-type: none"> ➤ Must be provides separate garbage bins at each building. ➤ All of the solid wastes will be collected separately in garbage based on their types and stored in relevant separated waste storage area ➤ Final wastes should be disposed by using YCDC's service.
Monitoring and Reporting	<ul style="list-style-type: none"> ➤ Daily waste has to be collected and handover to YCDC waste collector ➤ The inventory record of waste disposal will be maintained as proof for proper management as designed
Estimated Cost	50,000 Kyats per month
Responsible Person	<p>Manager (HR)</p> <ul style="list-style-type: none"> ▪ Responsible for overall site cleanliness and waste management ▪ Regular waste collection to minimize excessive waste storage

6.6. LIQUID WASTE MANAGEMENT PLAN (WASTEWATER)

Objective	<ul style="list-style-type: none"> ➤ To implementation plan for the management of liquid waste from
-----------	--

Environmental Management Plan

	collection, through treatment and resource recovery, to residual disposal
Relevant Government Law and Rule	➤ Yangon City Development Committee Law (2018), National Environmental Quality (Emission) Guidelines (2015), Underground Water Act
Time Frame	➤ Entire life spans of proposed project
Management Action	➤ Regular inspection and cleaning, oil traps, septic tank and adequate covers for all storage and waste disposal areas can decrease these contaminations.
Monitoring and Reporting	Frequency Biannually
	Parameters pH, Turbidity, Conductivity, Iron, Sulphaate, TSS, TDS, Manganese, COD, BOD, Cyanide, Copper, Zinc, Carbonate
	Proper maintenance of drainage and sewerage system will be conducted periodically
Estimated Cost	500,000 Kyats per year
Responsible Person	Manager: To hire organization/ Independent third-party testing wastewater quality EHS officer: Monitor the condition of factory's drainage and sewerage system

6.7. HAZARDOUS WASTE MANAGEMENT PLAN

Objective	➤ To avoid environmental pollution and adverse health effects due to its improper handling & disposal.
Relevant Government Law and Rule	➤ Yangon City Development Committee Law (2018), Explosive Ordnance Disposal Law (2018)
Time Frame	➤ Entire life spans of proposed project
Management Action	<ul style="list-style-type: none"> ➤ Proper inspection and maintenance in storage of hazardous waste. ➤ Dispose of hazardous chemicals and containers in accordance with occupational health, safety and environmental requirements. ➤ The empty chemical containers will hand over to suppliers for recycle or appropriate disposal ➤ The hazardous wastes are transported by specially licensed carriers and disposed in a licensed facility (e.g. DOWA and YCDC)
Monitoring and Reporting	Any hazardous materials purchased should include a Material Safety Data Sheet (MSDS), otherwise known as a Safety Data Sheet (SDS) or Product

Environmental Management Plan

	Safety Data Sheet (PSDS). By mandate of the World Health Organization's Inter-Organization Programme for the Sound Management of Chemicals (IOMC), all manufacturers of hazardous materials are required to provide a MSDS so that end users can treat the materials properly.
Estimated Cost	1,000,000 Kyats per year
Responsible Person	HSE Manager or Environmental Management Team of Jiangsu Soho (Myanmar) Garment Company Limited

6.8. ENERGY MANAGEMENT PLAN

Objectives:	<ul style="list-style-type: none"> ➤ To improve energy efficiency, reduce cost, optimize capital investment, reduce environmental and greenhouse gas emissions, and conserve natural resources
Relevant government law and rule	<ul style="list-style-type: none"> ➤ National Energy Management Committee (Myanmar Energy Master Plan 2015)
Time Frame	Once in a year throughout the factory life
Management Action	<ul style="list-style-type: none"> ➤ Installation of timers and thermostats to control heating and cooling ➤ Energy saving light installed in different area of the factory for saving energy ➤ Used of energy saving devices must be installed ➤ Ensure that good housekeeping measures such as turning off equipment and lights when not in use
Monitoring & Reporting	Conduct annual energy efficiency of audit to find out the scope for energy saving
Estimated cost	Approximately 1,000,000 Kyats per year
Responsibility	<p>Manager</p> <ul style="list-style-type: none"> ➤ To arrange energy, audit technical personnel ➤ To monitor and record electricity consumption, other related energy issues and take necessary actions if any problem arises

6.9. EMERGENCY RESPONSE AND DISASTER MANAGEMENT PLAN

Objectives:	<ul style="list-style-type: none"> ➤ To reduce the harmful effects of all hazards, including disasters. The World Health Organization defines an emergency as the state in which normal procedures are interrupted, and immediate measures (management) need to be taken to prevent it from becoming a disaster, which is even harder to recover from.
Relevant government law and rule	<ul style="list-style-type: none"> ➤ The Employment and Skill Development Law (August 2013), ILO guide to Myanmar Labour Law (2017)
Time Frame	<ul style="list-style-type: none"> ➤ Entire life spans of the factory operation
Management Action	<ul style="list-style-type: none"> ➤ The factory management has taken proper measures to handle any emergency situation like fire, earthquake, flood and storm ➤ Provision and inspection of firefighting equipment and fire hydrant system in all the sections

Environmental Management Plan

	<ul style="list-style-type: none"> ➤ A detail evaluation plan (fire exist, emergency exit door, etc.) is established and communicated with workers ➤ Periodic inspection of safety relief valve provided with pressure vessels and equipment, preventive maintenance; aware the workers about electric shock by necessary training. ➤ Regular fire drill operation is conducted ➤ Workers are informed about what to do in earthquake like stay in a safe place such as under table of desk, not to try move outside during earthquake, workers who will be outside during earthquake shall remain stay out of the building, trees, lump post, etc. Other relevant safety instruction of emergency situation it informed to workers by training ➤ Workers are aware of dangers from physical hazards such as obstacles covered by floodwater (storm debris, drainage opening, ground erosion) and from displaced reptiles (Snake) or other animals. ➤ A medical team has been prepared for primary treatment (First Aid) ➤ Prepare an emergency contact directory consisting contact numbers of nearest fire service, local police station, hospitals, etc. and display it in a place that everybody can see it easy. ➤ Build a safety committee which from firefighting team, rescue team. The committee arrange a meeting every month to discuss about safety management ➤ Ensure proper training of the employees about the disaster management, fire safety as well as occupational health and safety
Monitoring & Reporting	<p>Weekly check fire extinguishers and water hydrant in position</p> <p>Daily inspect that all fire exist are open</p> <p>Servicing fire extinguisher and records accidents,</p>
Estimated cost	Approximately 1,500,000 Kyats per year
Responsibility	<p>Manager and EHS officer</p> <ul style="list-style-type: none"> ➤ Arrange firefighting training after every 3 months ➤ Responsible for fire control and response ➤ Monitoring daily danger warning and bans

6.10. ENVIRONMENTAL MONITORING SCHEDULE AND REPORTING

The EMoP cell members responsible may conduct daily, weekly or monthly general inspections of the project are and facilities. The objective is to identify non-compliance to EMoP is provided the environmental monitoring schedule for Jiangsu Soho (Myanmar) Garment Company Limited. The proposed factory submits monitoring report to the Ministry not less frequently than every six (6) months, as provided in a schedule in the EMP,

Table 6-1 Environmental Monitoring Process

Issues	Parameter	Frequency	Area to be monitored	Monitoring coast	Responsible Organization
Operation Phase					
Common	Monitoring of mitigation measures	Yearly (3 years after operation)	The project	2,500,000 Kyats	Environmental Management Team's Jiangsu Soho (Myanmar) Garment Company Limited

Environmental Management Plan

Issues	Parameter	Frequency	Area to be monitored	Monitoring cost	Responsible Organization
Air quality	SO ₂ , NO ₂ , CO, CO ₂ , PM _{2.5} , PM ₁₀	Biannually monitoring and reporting to ECD (first 3 years after operation)	Outdoor and Indoor of proposed project	500,000 Kyats	Environmental Management Team's Jiangsu Soho (Myanmar) Garment Company Limited
Waste Generation	Solid waste, Liquid waste and Hazardous waste	Weekly	Recycle house and waste house and at the factory office	1,000,000 Kyats	Environmental Management Team's Jiangsu Soho (Myanmar) Garment Company Limited
Fire Hazardous	Visual inspection, firefighting equipment	Monthly	At the factory	500,000 Kyats	Environmental Management Team's Jiangsu Soho (Myanmar) Garment Company Limited
Noise	dBA	Biannually monitoring and reporting to ECD	Operation Area	300,000 Kyats	Environmental Management Team's Jiangsu Soho (Myanmar) Garment Company Limited
Water Quality	pH, Turbidity, Conductivity, Iron, Sulphate, TSS, TDS, Manganese, COD, BOD, Cyanide, Copper, Zinc, Carbonate	Biannually	At the factory	500,000 Kyats	Environmental Management Team's Jiangsu Soho (Myanmar) Garment Company Limited
Light intensity	Illuminance	Monthly	At the production line (especially cutting and QC)	500,000 Kyats	Environmental Management Team's Jiangsu Soho (Myanmar) Garment Company Limited
Decommissioning Phase					
Air quality	SO ₂ , NO ₂ , CO, CO ₂ , PM _{2.5} , PM ₁₀	One time during this phase	One point in the demolishing area	1,000,000 Kyats	Land Owner
Noise	Noise level in decibel (dBA)	One time during this phase	One points in demolishing area	500,000 Kyats	Land Owner
Rehabilitation	Recovering and Revegetation		All decommissioning area		Land Owner

6.11. CAPACITY BUILDING AND TRAINING PLAN

The emergency preparedness is vital, as quick and correct response is necessary in case of emergency to reduce injuries, harm and other damage. Care should be given for during processing activities in order to prevent synthetic errors and accidental cases (e.g., electricity shock and fire hazards).

The emergency response plans should be established for handling all foreseeable emergencies in the workplace and must provide the following;

6.11.1. Assignment of Responsibilities

All senior staff such as a line/production manager or safety officer should be assigned to lead the emergency response team and charged with the duties of (1) assessing the emergency and taking necessary actions (2) overseeing the implementation of the emergency response plan (3) organizing regular drill (4) ensuring all emergency equipment is well maintained.

6.11.2. Emergency Procedures

Emergency procedures are operating instructions for employees to follow in emergency case







About work safety in the concerned processing, the management team should

- a) Identify and list out all possible emergency situations in the workplace
- b) Assess the effects and impacts of the emergency situations
- c) Establish emergency response plans
- d) Provide and maintain emergency equipment and other necessary resources
- e) Ensure that staff are familiarized with the arrangements in case of emergencies by providing procedural instructions and employee training and organizing drills

6.11.3. Training for Emergencies

The type, amount and frequency of training varies, depending upon the task's employees are expected to perform. Although training must be provided to employees at least annually, safety meetings and drills should be conducted at more frequent intervals.

Regardless of the specific type of facility, training should include, though not be limited to the following;

-  Hazard recognition and prevention (fire, explosion, etc.)
-  Proper use of fire extinguishers
-  Emergency reporting procedures
-  Preventive maintenance
-  Hazardous materials spill response
-  First Aid

6.11.4. Fire Prevention and Protection

The fire prevention and protection program must address the following topics:

Prevention; policies, practices and procedures designed to keep the conditions necessary for a fire from coming together

- Hot work permits

Environmental Management Plan

- Lockout/tag out policies
- Design specifications for storage of flammable materials

Severity reduction; policies, practices and procedures designed to reduce the spread of fire and end the fire.

- Emergency plans
- Alarm systems
- Portable fire extinguishers
- Fire Protection Equipment

Cleanup; policies, practices and procedures designed to return the affected area to an operational level and reduce other losses created by improper cleanup

- First aid
- Removal of debris to an appropriate waste site
- Equipment and facility repair

6.11.5. Fire Protection Equipment

1. **Explosion Suppression Systems:** Explosion suppression systems should be used in unusually hazardous areas such as elevator legs, boots and head, or in areas such as bins, distributors and tanks.
2. **Portable Fire Extinguishers:** All buildings within a facility must have fully charged and operable portable fire extinguishers. If employees are expected to use portable extinguishers or other firefighting equipment against incipient fires, they must be trained to use the equipment. Training must include the following:
 - Correct type of extinguisher to use on different classes of fire
 - Proper techniques for use of the equipment to extinguish a fire
3. **Standpipes and Hoses:** All areas within a facility that are above 75 feet from ground level and in which combustible materials other than grain are stored should have wet or dry standpipes and hoses installed.
4. **Automatic Sprinkler Systems:** Automatic sprinkler systems are recommended in areas containing combustible materials.
5. **Fire Hydrants:** All grain and feed mill facilities should have adequate public or private fire hydrants on site. Each fire hydrant should have an adequate water supply.

6.11.6. Fire Safety and Evacuation Plan

Fire Evacuation plans should include the following information

- Emergency escape routes must be clearly shown on floor plans and workplace maps
- Employers must know that their employees know the emergency escape routes
- Procedures for employees who must remain to operate critical equipment before evacuating
- Identification and assignment of personnel responsible for rescue or emergency medical aid

Fire Safety Plans should include the following information:

1. Procedure for reporting a fire or other emergency
2. Site plans indicating the following

Environmental Management Plan

- The Occupancy assembly point
 - The locations of fire hydrants
 - The normal routes of fire department vehicles access
3. Floor Plans identifying the locations of the following
- Exits
 - Primary evacuation routes
 - Secondary evacuation routes
 - Accessible egress routes
 - Areas of refuge
 - Exterior area for assisted rescue
 - Manual fire alarm boxes
 - Portable fire extinguishers
 - Occupant-use hose stations
 - Fire alarm annunciators and controls

The following American National Fire Fighting Association (NFFA) Standards must be following.

Table 6-2 American National Fire Fighting Association (NFFA) Standards

No.	Parameters	Proposed Capacity	Remark
1	Fire water flow	14 bars	
2	Deluging rate	12.0 liters/m ² /min	
3	Foam rate	10.0 liters/m ² /min	
4	Maximum water pressure	190 liters/min	For storage area

Emergency Evacuation Drill: An exercise performed to train staff and occupants and to evaluate their efficiency and effectiveness in carrying out emergency excavation procedures

Employee Training and Response Procedures: Employee shall be trained in the fire emergency procedure described in their fire evacuation and fire safety plans and training should be based on these plans;

Frequency: Employee shall receive training in the contents of fire safety and evacuation plans and their duties as part of new employee orientation and at least annually thereafter. Records shall be kept and made available to the fire code official upon request.

Employee Training Program: Employee shall be trained in fire prevention, evacuation and fire safety in accordance with the following sections.

Fire Prevention Training - Employee shall be apprised of the fire hazards of the materials and processes to which they are exposed. Each employee shall be instructed in the proper procedures for preventing fires in the conduct of their assigned duties

Evacuation Training – Employees shall be familiarized with the fire alarm and evacuation signals, their assigned duties in the event of an alarm or emergency, evacuation routes, areas of refuge, exterior assembly areas and procedures for evacuation

Environmental Management Plan

Fire Safety Training – Employee assigned fire-fighting duties shall be trained to know the locations and proper use of portable fire extinguishers or other manual fire-fighting equipment and the protective clothing or equipment required for its safe and proper use.

6.11.7. Site Fire Control

1. Alert other people through fire alarm
2. If small, control using an extinguisher
3. Contact fire brigade if not under immediate control
4. Attend to human life in immediate danger
5. For electrical fires turn off power before fighting
6. Once out of the building, stay out. Do not allow people to go back into the burning building to collect valuables. While evacuating the building, close doors (but do not lock) to slow down the spread of fire
7. Obey all instructions
8. Proceed to an emergency evacuation area (Muster Point)

6.11.8. Employee Information and Training

Employees must be informed about any operations in their work area where hazardous chemicals or materials are present. They must also be informed about the locations and availability of the hazard communication program, list of chemicals and SDSs. Employees must receive training on the following:

- Methods for detecting the presence or release of a hazardous chemical, such as monitoring devices and the visual
- appearance or odor of the chemical
- Physical and health hazards of chemicals in their work area
- How to protect themselves using work practices, emergency procedures and personal protective equipment
- How to interpret the information on the labels and MSDS of chemical materials

6.11.9. Health and Safety Training Plan for Worker

Health and Safety Training plan currently used and provided in Jiangsu Soho (Myanmar) Garment Company Limited to all employees and workers by trainings internally and externally. Specific trainings are recommended and conducted according to the health and safety guidelines to enhance worker's health and to prevent all potential risks and hazards might occur in the factory. All required trainings related to health and the respective departments propose safety or operational parts, top management makes decision and HR organizes and conducts the trainings.

Table 6-3 Training Plan Used in Jiangsu Soho (Myanmar) Garment Company Limited

No.	Health and Safety Guidelines	Training needs
1.	Management	General fire and emergency response plan, evacuation. All training materials and procedures covering health and safety for workers and employees
2.	Machine safety and noise management	Training for machine operations to all operators Use of PPE and proper use of any necessary protection

Environmental Management Plan

No.	Health and Safety Guidelines	Training needs
		Maintenance and Emergency procedures
3.	Environment safety	Understanding and training on recognition and maintenance not to affect environment
4.	Material storage and safety	Safety use of related devices and machines Use of necessary protections in working areas Sanitation work
5.	Fire Safety	Firefighting and evacuating training and practices Firefighting materials/ devices use
6.	First Aid	first aid / CPR/ AED training from providers (Outsource) training on hazard of pathogens

6.12. 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 Jiangsu Soho (Myanmar) Garment Company Limited garment 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.

Jiangsu Soho (Myanmar) Garment Company Limited will contribute 2% of our Net Profit to social welfare activities that will help society and country of Myanmar. Our social welfare activities shall include training of our employees such as on job training to be more qualified, language (Chinese) training on weekends with experienced teachers and providing necessary healthcare such as medical checkups and giving proper medical knowledge about diseases and its prevention. Part of our CSR activity such as donations will also contribute to public school around our factory Table 6-4.

Table 6-4 CSR plan at Jiangsu Soho (Myanmar) Garment Company Limited

No	Particle	Contribution
1	Public school	0.5%
2	Non-profit training	1
3	Employee's healthcare	0.5%

6.12.1. 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.

6.12.2. 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 objective of our trainings is that we want our garment with their work but also improving their other skills such as language and

Environmental Management Plan

promoting knowledge about safety measures and occupational health employees to be not only become more productive and more qualified.

6.12.3. 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.

6.13. GRIEVANCE REDRESS MECHANISM (GRM)

People who live near the project affected 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 Jiangsu Soho (Myanmar) Garment Company Limited representative from Shwe Pyi Thar Industrial Zone (3) and representative from General Administration Department (Shwe Pyi Thar Township). Small issues will be solved at the Grievance Committee stage and other unsolved problems will be submitted to higher responsible authorities and finally the responsible person decided by the court in legal terms. The following diagram (Figure 6-1) show steps of Grievance Redress Mechanism of Proposed Factory Project.

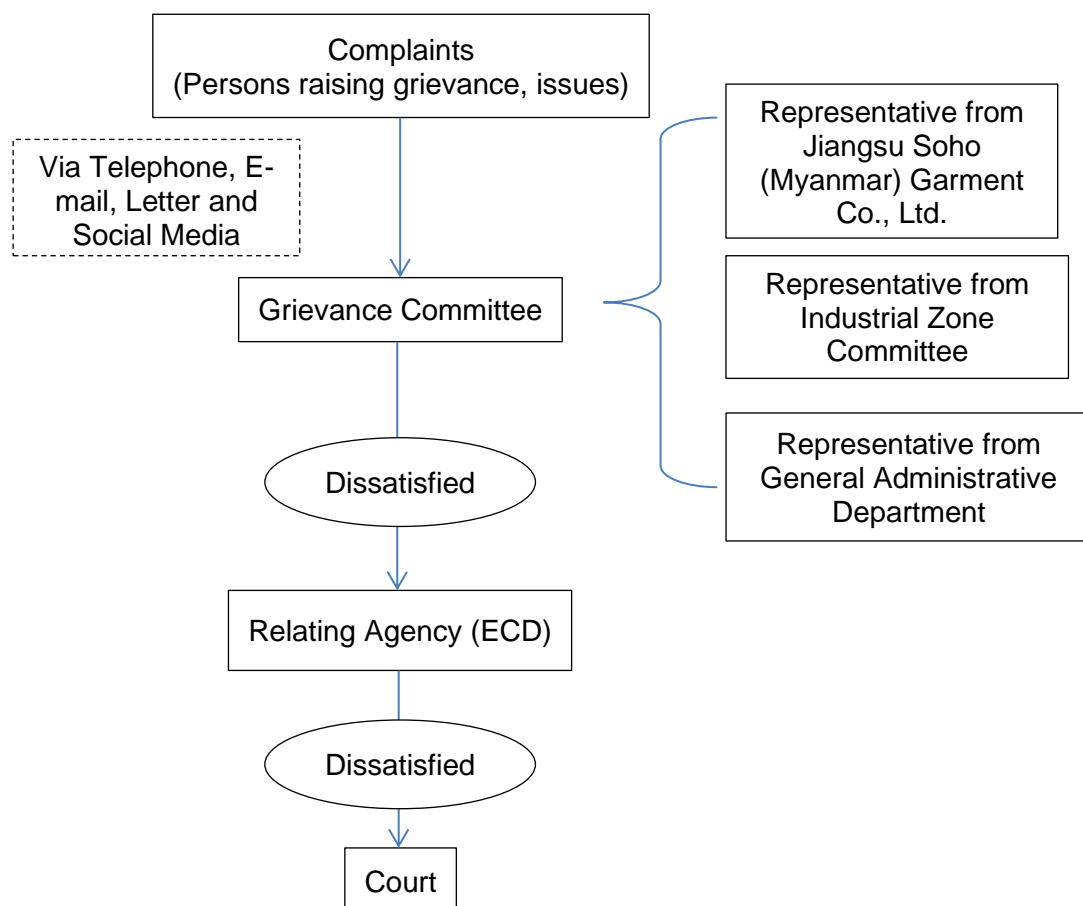


Figure 6-1 Grievance Redress Mechanism flow diagram

7. PUBLIC CONSULTATION DISCLOSURE

7.1. PUBLIC CONSULTATION PROCESS

This chapter presents public consultation and information disclosures during the remaining period of the Environmental Management Plan (EMP). Public consultation is the activities for gathering opinions and suggestions from related stakeholders. It will help to improve the implementation of the project, set the scope for the environmental impact assessment and development mitigation measures, which will be reported in the project's EMP report.

Public consultation conducted as part of this EMP project has three purposes:

- 1) Information the stakeholders about the Project, environmental and social issues related to project construction and operation, and mitigation measures to minimize environmental and social impacts;
- 2) Considering the views, concerns, and perceptions of stakeholders, communities and individuals that could be affected by the project or who otherwise have an interest in the project;
- 3) Participation and partnership where issues and needs are jointly discussed and assessed.

Although the public consultation is the effective way to achieve the information purpose, to seek views of the participation and partnership purpose, it cannot hold due to the current condition of Covid-19 diseases which started spreading in Myanmar since April, 2020.

During the preparation of this report, the Covid-19 disease becomes serious in Yangon. The Ministry of Health and Support declared to avoid gathering more than 5 people to avoid close contact and to prevent spreading of disease. Thus, the project condition, the present environmental condition and the management plan are through the social media of Myanwei Environmental Solution Company Limited Facebook page
(https://drive.google.com/file/d/15Y3x15zy3kirSnuIMSDKGj1qX_NrQII/view?usp=drivesdk) declared in 8th March, 2022 due to current situation. The suggestion, complain and comments from the public, organization and stakeholder are warmly welcome and accept via mailing, comment, telephoning and messengers.

Details of project information disclosure in the public consultation Power Point presentation **(Appendix G)** which is prepared in Myanmar language includes as follows;

- Objective of EMP
- Project Description
- Existing Environment and Monitoring
- Potential Impact and Mitigation measures
- Cooperative Social Responsibility (CSR)



Figure 7-1 Announcement Post of Proposed Project at social media

8. CONCLUSION & RECOMMENDATION

8.1. CONCLUSION

Environmental Management Plan (EMP) has been prepared for Jiangsu Soho (Myanmar) Garment Company Limited factory is located at Plot No. 88, Myay Taing Block No. 64 (Sethmu), Shwe Pyi Thar Township, Yangon region. 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 requirement of the proponent as it has been made for garment product 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 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 in terms of environmental in the operation phase. 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 project area. Furthermore, the environmental monitoring plan prepared as part of the EMP will provide adequate opportunities to address any residual impacts during the operation phase.

In conclusion, it has been figured out that, 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.

8.2. RECOMMENDATION

This is recommended that;

- All appropriate environmental management measures detailed in this report, together with any other environmental management commitments should be implemented throughout the entire life of the factory
- Solid wastes 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.

Environmental Management Plan

- 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 Project Proponent shall submit monitoring report to the Ministry every six (6) months, as provided in a schedule in the EMP. The proponent should abide environmental policy, laws, rules and instructions of the Republic of the Union of Myanmar.

9. REFERENCE

- [1] General Administrative Department (Shwe Pyi Thar Township), Shwe Pyi Thar Township Data (2017).
- [2] Hla Hla Aung, "Potential Seismicity of Yangon Region (Geological Approach), "Yangon Surface Displacement as Detected by Insar Time Series Analysis" July 2011.
- [3] Ministry of Natural Resources and Environmental Conservation (MONREC), "Environmental Impact Assessment Procedure" December 2015.
- [4] Ministry of Natural Resources and Environmental Conservation (MONREC), "National Environmental Quality (Emission) Guidelines" December 2015.

APPENDIX A**Company Document's Jiangsu Soho (Myanmar) Garment Company Limited**


Form (5-B)



THE REPUBLIC OF THE UNION OF MYANMAR
 Yangon Region Investment Committee
ENDORSEMENT


Endorsement No. YGN – 352/2020 Date 20 February 2020

This endorsement is issued by Yangon Region Investment Committee in accordance with Section 25(d) of the Myanmar Investment Law–

- (1) Name of Investor MR. HUANG TIANSHU
- (2) Citizenship CHINESE
- (3) Residence Address NO.48, RUAN JIAN ROAD, YU HUA, NAN JING, JIANGSU PROVINCE, THE PEOPLE'S REPUBLIC OF CHINA
- (4) Name and Address of Principal Organization JIANGSU SOHO SILK COMPANY LIMITED, NO.48, RUAN JIAN ROAD, YU HUA, NAN JING, JIANGSU PROVINCE, THE PEOPLE'S REPUBLIC OF CHINA
- (5) Place of Incorporation THE PEOPLE'S REPUBLIC OF CHINA
- (6) Type of business MANUFACTURING OF GARMENT ON CMP BASIS
- (7) Place(s) of investment Project PLOT NO. 88, MYAY TANG BLOCK NO. 64 (SETHMU), SHWE PYI THAR TOWNSHIP, YANGON REGION
- (8) Amount of Foreign Capital US\$ 1.200 MILLION
- (9) Period for Foreign Capital to be brought in WITHIN 1 YEAR FROM THE DATE OF ISSUANCE OF ENDORSEMENT
- (10) Total Amount of Capital (Kyat) EQUIVALENT IN KYAT OF US\$ 1.200 MILLION
- (11) Construction/ Preparation Period 1 YEAR
- (12) Validity of Endorsement 30 YEARS
- (13) Form of Investment WHOLLY FOREIGN OWNED
- (14) Name of Company Incorporated in Myanmar JIANGSU SOHO (MYANMAR) GARMENT COMPANY LIMITED






 (Phyto Min Thein)
 Chairman

Environmental Management Plan



ပုံစံ (၅-ခ)

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
ရန်ကုန်တိုင်းဒေသကြီးရင်းနှီးမြှုပ်နှံမှုကော်မတီ

အတည်ပြုမိန့်

အတည်ပြုမိန့်အမှတ် ရကက- ၃၅၂/၂၀၂၀ ၂၀၂၀ ပြည့်နှစ် ဖေဖော်ဝါရီလ ၂၆ ရက်

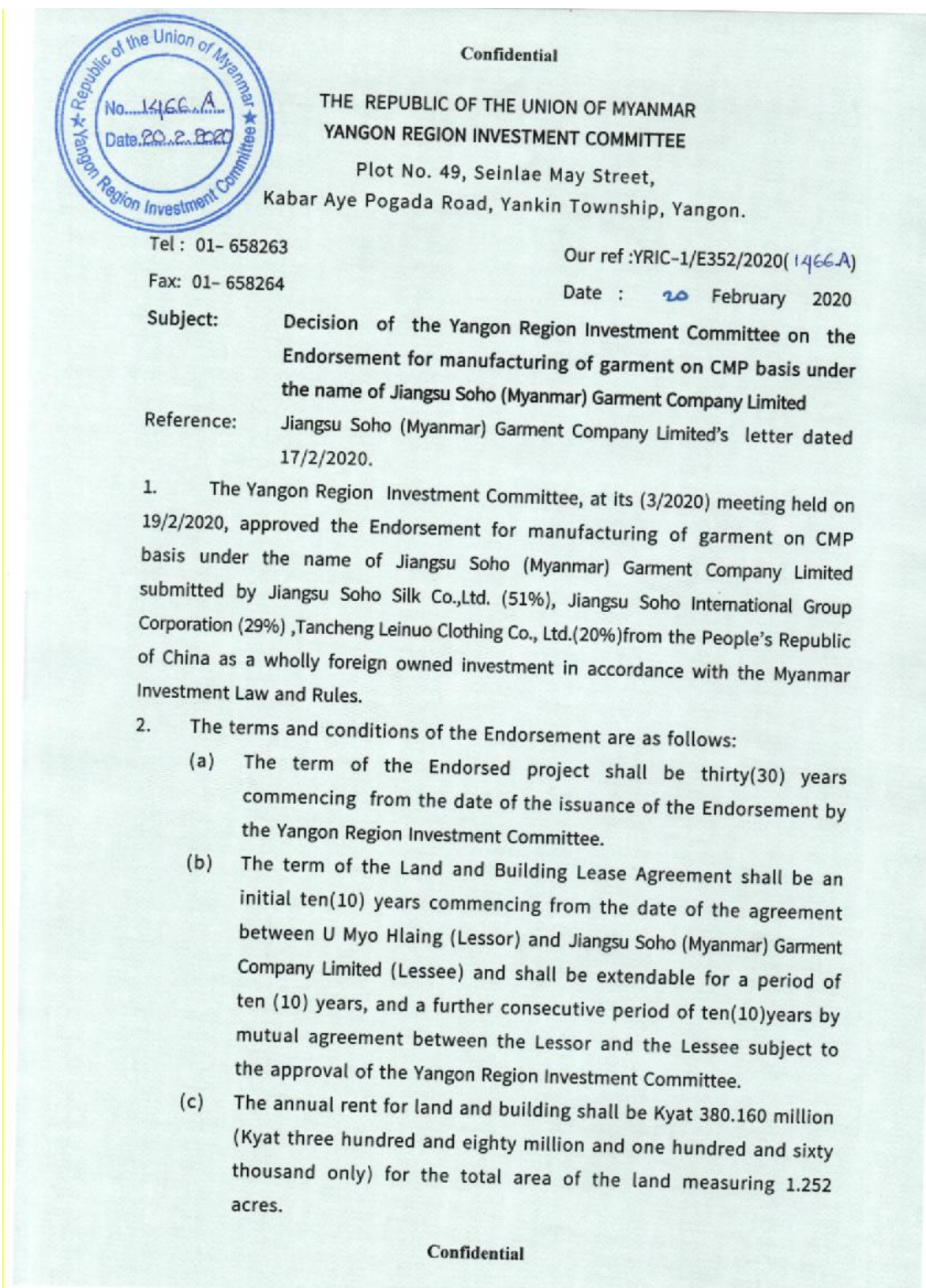
ရန်ကုန်တိုင်းဒေသကြီး ရင်းနှီးမြှုပ်နှံမှု ကော်မတီသည် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ဥပဒေ
ပုဒ်မ-၂၅ ပုဒ်မခွဲ (ဃ) အရ ဤအတည်ပြုမိန့်ကိုထုတ်ပေးလိုက်သည် -

- (၁) ရင်းနှီးမြှုပ်နှံသူအမည် MR. HUANG TIANSHU
- (၂) နိုင်ငံသား CHINESE
- (၃) နေရပ်လိပ်စာ NO.48, RUAN JIAN ROAD, YU HUA, NAN JING, JIANGSU PROVINCE, THE PEOPLE'S REPUBLIC OF CHINA
- (၄) ပင်မအဖွဲ့အစည်းအမည်နှင့်လိပ်စာ JIANGSU SOHO SILK COMPANY LIMITED ၊ NO.48, RUAN JIAN ROAD, YU HUA, NAN JING, JIANGSU PROVINCE, THE PEOPLE'S REPUBLIC OF CHINA
- (၅) ဖွဲ့စည်းရာအရပ် THE PEOPLE'S REPUBLIC OF CHINA
- (၆) ရင်းနှီးမြှုပ်နှံသည့်လုပ်ငန်းအမျိုးအစား CMP စနစ်ဖြင့် အဝတ်အထည် အမျိုးမျိုး ချုပ်လုပ်ခြင်း လုပ်ငန်း
- (၇) ရင်းနှီးမြှုပ်နှံသည့်အရပ်ဒေသ(များ) မြေကွက်အမှတ် ၈၈ ၊ မြေတိုင်းရပ်ကွက်အမှတ် ၆၄(စက်မှု)၊ ရွှေပြည်သာမြို့နယ်၊ရန်ကုန်တိုင်း ဒေသကြီး
- (၈) နိုင်ငံခြားမတည်ငွေရင်း ပမာဏ အမေရိကန်ဒေါ်လာ ၁.၂၀၀ သန်း
- (၉) နိုင်ငံခြားမတည်ငွေရင်းယူဆောင်လာရမည့်ကာလ အတည်ပြုမိန့် ရရှိသည့် နေ့မှ ၁ နှစ် အတွင်း
- (၁၀) စုစုပေါင်း မတည်ငွေရင်းပမာဏ(ကျပ်) အမေရိကန်ဒေါ်လာ ၁.၂၀၀ သန်းနှင့် ညီမျှသော မြန်မာကျပ်ငွေ
- (၁၁) တည်ဆောက်မှု/ ပြင်ဆင်မှုကာလ ၁ နှစ်
- (၁၂) အတည်ပြုမိန့်သက်တမ်း ၃၀ နှစ်
- (၁၃) ရင်းနှီးမြှုပ်နှံမှုပုံစံ ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု
- (၁၄) မြန်မာနိုင်ငံတွင် ဖွဲ့စည်းမည့် ကုမ္ပဏီအမည် JIANGSU SOHO (MYANMAR) GARMENT COMPANY LIMITED



CF
30/3/2020
(ဖြိုးမင်းသိန်း)
ဥက္ကဋ္ဌ

Environmental Management Plan



Environmental Management Plan

Confidential

- 2 -

- (d) Jiangsu Soho (Myanmar) Garment Company Limited, may submit an application form for the right to use land under Chapter XII and exemptions and reliefs under Sections 75, 77 and 78 of Chapter XVIII of the Myanmar Investment Law.
- (e) Jiangsu Soho (Myanmar) Garment Company Limited shall use its best efforts to achieve a timely realization of the work stated in the Endorsement application.
- (f) Jiangsu Soho (Myanmar) Garment Company Limited shall obey and respect the responsibilities of investors under Section 65 of the Myanmar Investment Law and Chapter XX of the Myanmar Investment Rules.
- (g) Jiangsu Soho (Myanmar) Garment Company Limited shall carry out of prevention, mitigation and monitoring of significant environmental impacts according to the type of investment activities in accordance with the relevant laws, rules, regulations and procedures.
- (h) Jiangsu Soho (Myanmar) Garment Company Limited shall abide by the Fire Services Department' s rules, regulations, directives and instructions. Moreover, Jiangsu Soho (Myanmar) Garment Company Limited shall undertake fire prevention measures such as the appropriate placement of water storage tank, fire hooks, sand bags, and fire extinguishers, and training will be provided to all employees regarding the use of fire fighting equipment. Jiangsu Soho (Myanmar) Garment Company Limited shall also appoint a specific individual who shall be called the Fire Safety Officer (FSO) who shall be designated responsible for on-site safety and coordination within the organization.
- (i) Jiangsu Soho (Myanmar) Garment Company Limited shall submit to the Myanmar Investment Commission any sublease, mortgage, transfer of shares or transfer of the business to any person during the investment period in accordance with Section 72 of Myanmar Investment Law and Rule 191 of the Myanmar Investment Rules.
- (j) Jiangsu Soho (Myanmar) Garment Company Limited shall submit an annual report in the prescribed form to the Myanmar Investment

Confidential

Environmental Management Plan

Confidential

- 3 -

Commission within three (3) months of the end of the financial year in accordance with Rule 196 of the Myanmar Investment Rules and shall disclose a summary of the report on its website or the Myanmar Investment Commission's website.

- (k) Jiangsu Soho (Myanmar) Garment Company Limited must, during the operation period under the Endorsement of the Myanmar Investment Commission, submit its operating report quarterly in the prescribed form in accordance with Rule 197 of Myanmar Investment Rules.

3. Jiangsu Soho (Myanmar) Garment Company Limited shall carry out in accordance with the laws, regulations and stipulations of relevant Union Ministries, governmental department and governmental organizations the obtaining of any license, permit or registration as per Section 65(d) of the Myanmar Investment Law.

4. Jiangsu Soho (Myanmar) Garment Company Limited shall submit five (5) copies of all approvals, licences, permits and similar authorizations relevant to the initial implementation of the investment and Lease Agreement to the Yangon Region Investment Committee.



(Phyto Min Thein)

Chairman

Jiangsu Soho (Myanmar) Garment Company Limited

- cc:
1. The Office of the Union Government
 2. Ministry of office of the Union Government
 3. Ministry of Home Affairs
 4. Ministry of Planning, Finance and Industry
 5. Ministry of Investment, Foreign Economic Relations
 6. Ministry of Natural Resources and Environmental Conservation
 7. Ministry of Labour, Immigration and Population
 8. Ministry of Commerce
 9. Central Bank of Myanmar

Confidential

Environmental Management Plan

Confidential



- 4 -

10. Office of the Myanmar Investment Commission
11. Chairman, CMP Enterprises Supervision Committee
12. Director General, National Archives Department
13. Director General, Customs Department
14. Director General, Internal Revenue Department
15. Director General, Directorate of Industrial Supervision and Inspection
16. Director General, Directorate of Investment and Company Administration
17. Director General, Department of Environmental Conservation
18. Director General, Directorate of Labour
19. Director General, Department of Immigration
20. Director General, Department of Trade
21. Monitoring and Supervision Division, Directorate of Investment and Company Administration

Confidential

APPENDIX B

Transitional Consultant Registration Certificate


REPUBLIC OF THE UNION OF MYANMAR
Ministry of Natural Resources and Environmental Conservation
CERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION
 (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်)

No. 10048 Date 07 JUL 2017

The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the person under Environmental Impact Assessment Procedure, Notification No. 616/2015.

(ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ၅၁၆/၂၀၁၅ အရ သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် ဤအထောက်အထားလက်မှတ်ကို လူပုဂ္ဂိုလ်အားထုတ်ပေးလိုက်သည်။)

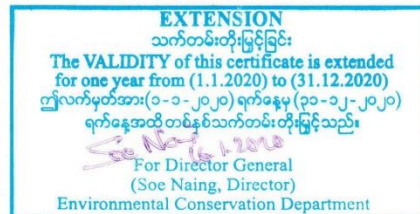
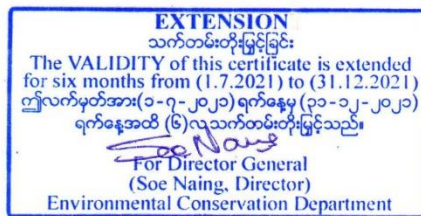
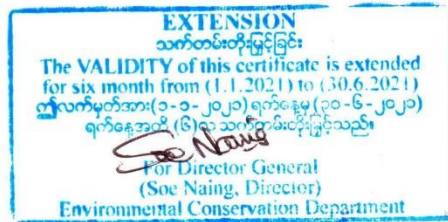
(a) Name of Consultant (အကြံပေးပုဂ္ဂိုလ်အမည်)	U Lin Htet Sein
(b) Citizenship (နိုင်ငံသား)	Myanmar
(c) Identity Card / Passport Number (မှတ်ပုံတင်/နိုင်ငံကူးလက်မှတ် အမှတ်)	7/ Tha Ka Na (N) 101377
(d) Address (ဆက်သွယ်ရန်လိပ်စာ)	No.54, Room No.704, Waizayantar Tower, Waizayantar Road, Thingangyun Township, Yangon. lin.tbs@gmail.com , 09 421137569
(e) Organization (အဖွဲ့အစည်း)	Total Business Solution Co., Ltd.
(f) Type of Consultancy (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား)	Person
(g) Duration of validity (သက်တမ်းကုန်ဆုံးရက်)	31 March 2018


 Director General
 Environmental Conservation Department
 Ministry of Natural Resources and Environmental Conservation

Environmental Management Plan

Areas of Expertise Permitted
(ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ)

1. Geology and Soil



Environmental Management Plan



THE REPUBLIC OF THE UNION OF MYANMAR
Ministry of Natural Resources and Environmental Conservation
Environmental Conservation Department



CERTIFICATE FOR TRANSITIONAL CONSULTANT REGISTRATION
 (ကြားကာလအကြံပေးလုပ်ကိုင်သူမှတ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်)

No. 10068 Date 24 MAY 2019

The Ministry of Natural Resources and Environmental Conservation, hereby, issues this certificate to the organization under Environmental Impact Assessment Procedure, Notification No. 616/2015.

(ပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ၆၁၆/၂၀၁၅ အရ သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင်ထိန်းသိမ်းရေးဝန်ကြီးဌာနသည် ဤအထောက်အထားလက်မှတ်ကို ထုတ်ပေးလိုက်သည်။)

- | | |
|--|--|
| (a) Name of Organization
(အဖွဲ့အစည်းအမည်) | Myanwei Consulting Co., Ltd. |
| (b) Name of the representative in the organization
(အဖွဲ့အစည်းကိုယ်စားလှယ်၏အမည်) | U Nyan Lynn Aung |
| (c) Citizenship of the representative in the organization
(အဖွဲ့အစည်းကိုယ်စားလှယ်၏နိုင်ငံသား) | Myanmar |
| (d) Identity Card /Passport Number of the representative person in the organization
(အဖွဲ့အစည်းကိုယ်စားလှယ်၏ မှတ်ပုံတင်/ နိုင်ငံကူးလက်မှတ် အမှတ်) | 12/Sakhana(N)056196 |
| (e) Address of organization
(ဆက်သွယ်ရန်လိပ်စာ) | No. 28, Myay nu street, Sanchaung Township,
Yangon, Myanmar.
Mobile phone: 09440251888
E mail: ceo@myanweiconsulting.com |
| (f) Type of Consultancy
(အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) | Organization |
| (g) Duration of validity
(သက်တမ်းကုန်ဆုံးရက်) | 31 December 2019 |

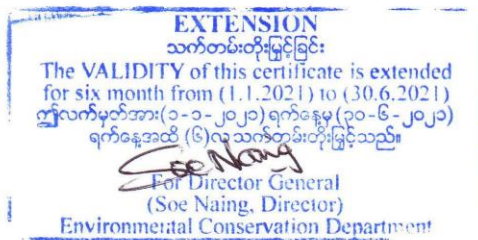
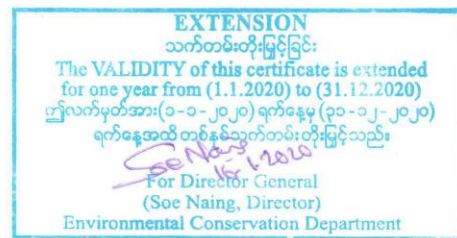


Director General
 Environmental Conservation Department
 Ministry of Natural Resources and Environmental Conservation

Environmental Management Plan

Areas of Expertise Permitted
(ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ)

1. Facilitation of meeting,
2. Land use,
3. Legal analysis,
4. Geology and soil,
5. Occupational Safety and Health,
6. Public Health



APPENDIX C

Mornitoring Result

Light Result



Plot No. (36, 38), Room No. 9A, 9th floor, Grand Myay Nu Condominium, Myay Nu Street, Sanchaung Township, Yangon Region, The Republic of the Union of Myanmar.
Office: (+95) 1 526574, Mobile: (+95) 9775405118, 9792528677, 9449251888; Website: www.myanweiconsulting.com

Project Name:	Jiangsu Soho (Myanmar) Garment Company Limited
Project Location:	Plot No. 88, Myay Taing Block No. 64 (Sethmu), Shwe Pyi Thar Township, Yangon Region.
Sampling Date:	7 January, 2022
Sampling Time:	9:00 am to 4:00 pm
Sampling Condition:	
Sampling By:	Environmental Team Represented By Myanwei Environmental Solutions Company Limited

Instrument	Type	Sampling Rate	Location
Uni-T (Luminometer)	UT380 Series	100 times/second	16°56'17.27"N 96°5'0.18"E

No	Measure area	Unit	Result	Standard	Remark
1	Cutting Area	Lux	632	1000	Below
2	Warehouse	Lux	67.2	300	Below
3	Quality Control	Lux	953	600	Above
4	Sewing Area	Lux	746	600	Above
5	Packing Area	Lux	898	600	Above

IESNA Lighting Handbook

Department	Type of Light	Wattage of Light	Lux Level
Fabric store	Fluorescent tube light	40 W	300
Sewing floor	LED tube light	20 W (T8)	400
Cutting floor	LED tube light	22 W (T8)	1000
Finishing	LED tube light	28 W (T8)	600
Inspection points	LED tube light	28 W (T8)	900 (except 1500 at audit tables)
Sampling	LED tube light	22 W (T8)	500
Office areas	Fluorescent tube light	36 W (T)	300


LIN HTET SEIN
DIRECTOR
MYANWEI ENVIRONMENTAL SOLUTIONS
COMPANY LIMITED.

Environmental Management Plan

Noise result



Plot No. (36, 38), Room No. 9A, 9th floor, Grand Myay Nu Condominium, Myay Nu Street, Sanchaung Township, Yangon Region, The Republic of the Union of Myanmar.
Office: (+95) 1 526574, Mobile: (+95) 9775405118, 9792528677, 9449251888; Website: www.myanweiconsulting.com

Project Name:	Jiangsu Soho (Myanmar) Garment Company Limited
Project Location:	Plot No. 88, Myay Taing Block No. 64 (Sethmu), Shwe Pyi Thar Township, Yangon Region.
Sampling Date:	7 January, 2022
Sampling Time:	9:00 am to 4:00 pm
Sampling Condition:	
Sampling By:	Environmental Team Represented By Myanwei Environmental Solutions Company Limited

Instrument	Type	Sampling Rate	Location
Digital Sound Level Meter	GM 1356 USB	30 -130 dB	16°56'17.65"N 96°5'0.38"E

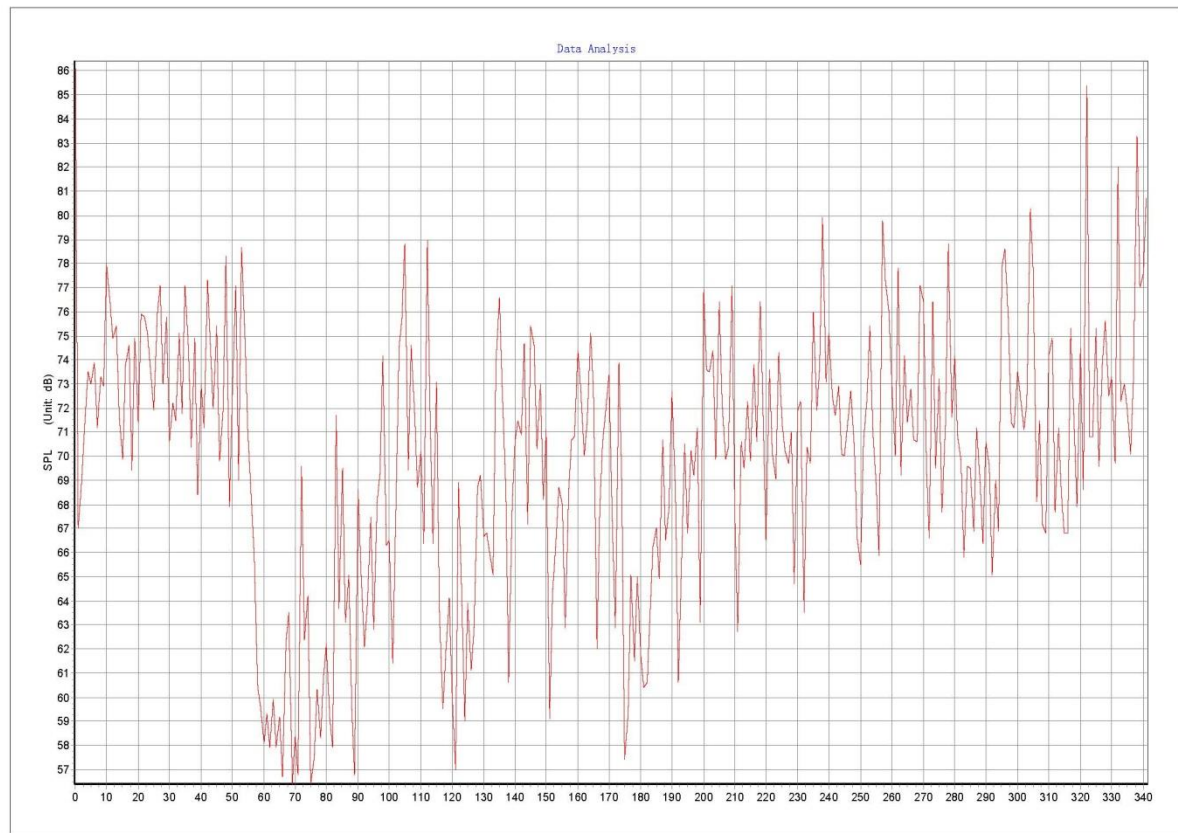
No	Place	Unit	Result	Standard	Remark
1	Operation Area	dBA	69.79 dBA	70 dBA	Normal

National Environmental Quality (Emission) Guideline

Receptor	One Hour Laeq (dBA)	Guideline value
	Daytime 7:00 – 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


LIN HTET SEIN
DIRECTOR
MYANWEI ENVIRONMENTAL SOLUTIONS
COMPANY LIMITED.

Environmental Management Plan

Noise Graph

Environmental Management Plan

Air Quality results



Plot No. (36, 38), Room No. 9A, 9th floor, Grand Myay Nu Condominium, Myay Nu Street, Sanchaung Township, Yangon Region, The Republic of the Union of Myanmar.
Office: (+95) 1 526574, Mobile: (+95) 9775405118, 9792528677, 9449251888; Website: www.myanweiconsulting.com

Project Name:	Jiangsu Soho (Myanmar) Garment Company Limited
Project Location:	Plot No. 88, Myay Taing Block No. 64 (Sethmu), Shwe Pyi Thar Township, Yangon Region.
Sampling Date:	7 January, 2022
Sampling Time:	9:00 am to 4:00 pm
Sampling Condition:	
Sampling By:	Environmental Team Represented By Myanwei Environmental Solutions Company Limited

Instrument	Type	Sampling Rate	Location
OCEANUS-AQM-09	PM, O ₃ , NO ₂ , SO ₂ , CO Detector	0-999.9 (µg/M ³)	Operation Area (Outdoor)

National Environmental Quality (Emission) Guideline

Parameter	Averaging period	Guideline value	Unit
PM 10 ^a	1-year	20	(µg/M ³)
	24-hour	50	
PM 2.5 ^a	1-year	10	(µg/M ³)
	24-hour	25	
O ₃ ^a	8-hour	100	(µg/M ³)
NO ₂ ^a	1-year	40	(µg/M ³)
	1-hour	200	
SO ₂ ^a	24-hour	20	(µg/M ³)
	10-min	500	
CO ^b	15-min	100	(µg/M ³)
	30-min	60	
	1-hour	30	
	8-hour	10	

a. Values from air quality guidelines-global update 2005: particulate matter, ozone, nitrogen dioxide and sulfur dioxide.

b. Values from air quality guidelines for Europe, 2nd edition.

Monitoring Result

Parameters	Observed value	Guideline value	Unit	Guideline
Outdoor Air Quality Measurement				
PM ₁₀	60.13	50	µg/m ³	NEQG
PM _{2.5}	56.86	25	µg/m ³	NEQG

Environmental Management Plan

SO ₂	171.04	500	µg/m ³	NEQG
NO ₂	11	200	µg/m ³	NEQG
O ₃	77.62	100	µg/m ³	NEQG
CO	0.34	10	µg/m ³	NEQG




LIN HTET SEIN
DIRECTOR
MYANWEI ENVIRONMENTAL SOLUTIONS
COMPANY LIMITED.

Environmental Management Plan


APPENDIX D


Water Quality Result



**ISO
TECH
LABORATORY**

Laboratory Technical Consultant: U Saw Christopher Maung
B.Sc Engg: (Civil), Dip S.E(Delft) Lecturer of YIT (Retd), Consultant (Y.C.D.C), LWSE 001.
Former Member (UNICEF, Water quality monitoring & Surveillance Myanmar)





ISO 9001:2015 Cert. No. 688600

WTL-RE-001
 Issue Date - 01-12-2012
 Effective Date - 01-12-2012
 Issue No - 1.0/Page 1 of 1

W0921 390

WATER QUALITY TEST RESULTS FORM

Client	Jiangsu Soho (Myanmar) Garment		
Nature of Water	Drinking Water		
Location	Shwe Pyi Thar Township		
Date and Time of collection	28.9.2021		
Date and Time of arrival at Laboratory	28.9.2021		
Date and Time of commencing examination	29.9.2021		
Date and Time of completing	1.10.2021		

Results of Water Analysis

WHO Drinking Water Guideline (Geneva - 1993)

pH	7.1		6.5 - 8.5
Colour (True)	Nil	TCU	15 TCU
Turbidity	Nil	NTU	5 NTU
Conductivity	64	micro S/cm	
Total Hardness	10	mg/l as CaCO ₃	500 mg/l as CaCO ₃
Calcium Hardness	6	mg/l as CaCO ₃	
Magnesium Hardness	4	mg/l as CaCO ₃	
Total Alkalinity	26	mg/l as CaCO ₃	
Phenolphthalein Alkalinity	Nil	mg/l as CaCO ₃	
Carbonate (CaCO ₃)	Nil	mg/l as CaCO ₃	
Bicarbonate (HCO ₃)	26	mg/l as CaCO ₃	
Iron	0.07	mg/l	0.3 mg/l
Chloride (as CL)	13	mg/l	250 mg/l
Sodium Chloride (as NaCL)	21	mg/l	
Sulphate (as SO ₄)	Nil	mg/l	500 mg/l
Total Solids	33	mg/l	1500 mg/l
Total Suspended Solids	1	mg/l	
Total Dissolved Solids	32	mg/l	1000 mg/l
Manganese	Nil	mg/l	0.05 mg/l
Phosphate	Nil	mg/l	
Phenolphthalein Acidity	2	mg/l	
Methyl Orange Acidity	Nil	mg/l	
Salinity	0.1	ppt	

Remark: This certificate is issued only for the receipt of the test sample.

Tested by

Signature: Zaw Hein Oo

Name: B.Sc (Chemistry)
Sr.Chemist

Approved by

Signature: Thinzar Theint Theint

Name: B.E(Civil)
Assistant Technical Officer

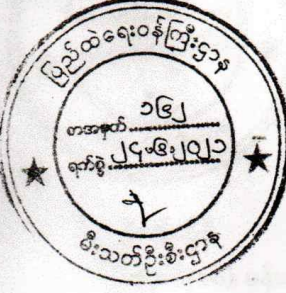

(a division of WEG Co.,Ltd.)

No.18, Lanthit Road, Nanthargone Quarter, Insein Township, Yangon, Myanmar.
 Ph: 01-640955, 09-73225175, 09-30339681, 01-644506, E-mail: isotechlaboratory@gmail.com, Website: weg-myanmar.com

APPENDIX E

Fire Safety Training

ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်
ပြည်ထောင်စုဝန်ကြီးဌာန
မီးသတ်ဦးစီးဌာန

မီးဘေးလုံခြုံရေးစစ်ဆေးထောက်ခံချက်

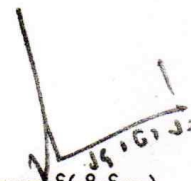
အမှတ်စဉ်(၁၆၂)

၁။ ရန်ကုန်တိုင်းဒေသကြီး/ပြည်နယ်၊ _____ ရပ်ကွက်/ကျေးရွာ၊ _____ ပန်းတိုင်းဝန်ဦးရွာသစ်လမ်း၊ အမှတ် (၈၈) ရှိ ပိုင်ရှင်ဦး/ဒေါ် _____ ဦးမျိုးလှိုင်၏ Steel Structure(၃)ထပ်(အထည်ချုပ်စက်ရုံ) (၁)လုံး Steel Structure(၄)ထပ်(လူနေဆောင်) (၁)လုံး အဆောက်အဦအတွက် ဤဌာန၏ မီးဘေးလုံခြုံရေးဆိုင်ရာပြဌာန်းချက်များအား(၁၉-၆-၂၀၂၁)ရက်နေ့တွင် စစ်ဆေးသည့်အခါ ပြည့်စုံစွာဆောင်ရွက်ထားကြောင်း စစ်ဆေးတွေ့ရှိရသည်။

၂။ ဤထောက်ခံချက်သည် စစ်ဆေးသည့်နေ့မှစ၍ (၃)နှစ်အထိသာ အကျိုးဝင်သည်။

၃။ ထို့ပြင် မီးသတ်ဦးစီးဌာနမှ အခါအားလျော်စွာ ထပ်မံစစ်ဆေးချိန်တွင် မီးဘေးလုံခြုံရေးဆိုင်ရာ ပြဌာန်းချက်များကို လိုက်နာဆောင်ရွက်ခြင်းမရှိပါက ဤထောက်ခံချက်ကို ပြန်လည်ရုတ်သိမ်းသွားမည်ဖြစ်ပြီး အဆောက်အဦအားအသုံးပြုသူ(သို့မဟုတ်)ပိုင်ရှင်သည် မြန်မာနိုင်ငံမီးသတ်တပ်ဖွဲ့ဥပဒေအရအရေးယူခြင်းခံရမည်။

မှတ်ချက်။ ဤထောက်ခံချက်အား လွှဲပြောင်းသုံးစွဲခြင်းမပြုရ။ အဆောက်အဦအား မူလရည်ရွယ်ချက်မှ ပြောင်းလဲအသုံးပြုပါက ထောက်ခံချက်အသစ် ထပ်မံလျှောက်ထားရမည်။


 ညွှန်ကြားရေးမှူးချုပ်(ကိုယ်စား)
 (သိန်းထွန်းဦး၊ ညွှန်ကြားရေးမှူး)

F.S.C(Waylin)

Environmental Management Plan



APPENDIX F

First Aid Certificate

	<h1 style="color: blue; font-family: serif;">AUNG MYAY THAR SI</h1> 		<h2 style="color: blue; font-family: serif;">Nurse Aid & Pharmacy Training Center</h2> <h2 style="color: blue; font-family: serif;">Certificate</h2>
<p><i>This is to certify that</i></p> <p>Phyu Phyu Khin, 12/ La Tha Ya (N) 071675 has successfully completed the</p> <p>Nurse Aid & Advanced Course & Academic Medical Training Course</p> <p>from July, 2016 to December, 2016</p> <p>and has duly been awarded this certificate of proficiency</p>			
<p>Given under the seal of</p> <p>AungMyay Thar Si Medical Center</p> <p>Serial No.: 880-16- YGN</p> <p>Date : 31- 12 - 2016</p>		<p></p> <p>Dr. Ko Ko Oo</p> <p>Medical Superintendent</p> <p>Aung Myay Thar Si Medical Center</p>	

APPENDIX G

Public Disclose Power Point Presentation

3/8/2022

1

အစည်းအဝေး အကြောင်းအရာ

၀။ JIANGSU SOHO (MYANMAR) GARMENT COMPANY LIMITED
အား မိတ်ဆက်ခြင်း

၂။ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်အား မိတ်ဆက်ခြင်း

၃။ သက်ရောက်မှုစီမံခန့်ခွဲခြင်း ရလဒ်များနှင့် ထိခိုက်မှုအဆင့်သတ်မှတ်ချက်များ

၄။ ပတ်ဝန်းကျင်အပေါ်သက်ရောက်မှုများနှင့် ဖြေရှင်းရေးနည်းလမ်းများ

၅။ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ် နှင့်

၆။ စက်ရုံ၏ဆောင်ရွက်ချက်များ



JIANGSU SOHO (MYANMAR) GARMENT COMPANY LIMITED ၏ CMP စနစ်ဖြင့်

အဝတ်အထည် အမျိုးမျိုးချုပ်လုပ်ခြင်းလုပ်ငန်း

ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် အစီရင်ခံစာ (မှတ်တမ်း) အတွက် သက်ဆိုင်သူများနှင့် တွေ့ဆုံတွေ့ဆုံရေးလေ့လာမှု အခမ်းအနား။

မတ်လ ၈ ရက် ၂၀၂၂ ခုနှစ်

Prepared By
Myanwei Environmental Solutions Co., Ltd.
MYANWEI
ENVIRONMENTAL SOLUTIONS

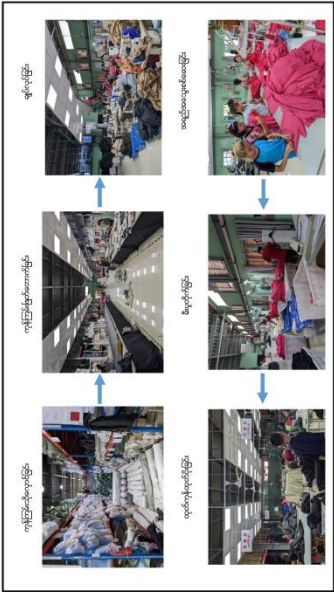
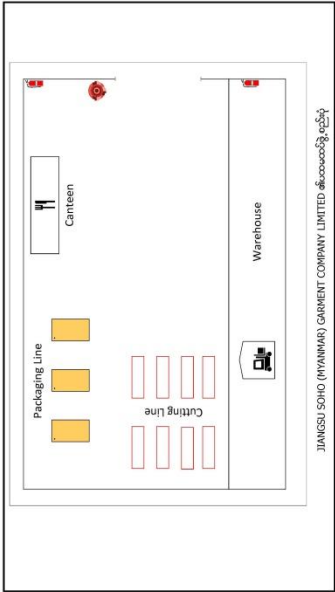
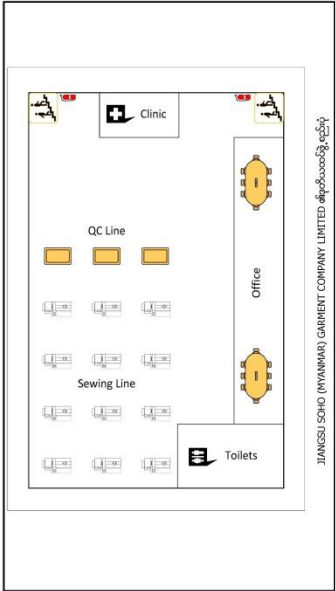


3/8/2022

လုပ်ငန်းလည်ပတ်ရန်အခြေခံလိုအပ်ချက်များ	
ရေအေးသန့်စနစ်ပြတန်ခံ	
ရေအေးစနစ်	အပီစီတွင်ရေ (၁၀တွင်၁)
အဓိကလိုအပ်ချက်	
ခန့်အပ်မည့်လုပ်သားဦးရေ	၉၉၅ ဦး
အဓိကကုန်ကြမ်း	မိလိတ်အမျိုးမျိုး၊ ရေညှိဖျင်၊ အင်္ဂလိပ်၊ ဓလဘယ်၊ သားအရေဦး၊ ကြာသီး၊ စပယ်မျိုး၊ နံနံ၊ ဘက်စုံပညာများ။
နှစ်စဉ်ထွက်ကုန်ပစ္စည်းယာ	နှစ်စဉ် ဖြန့်ဖြတ်ကုန်အရေအတွက် အထည်ရေ (၁၅၀၀၀၀၀ မှ ၂၅၀၀၀၀၀)၊

[illegible]

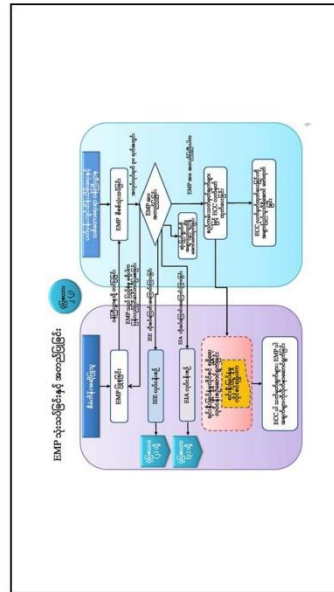
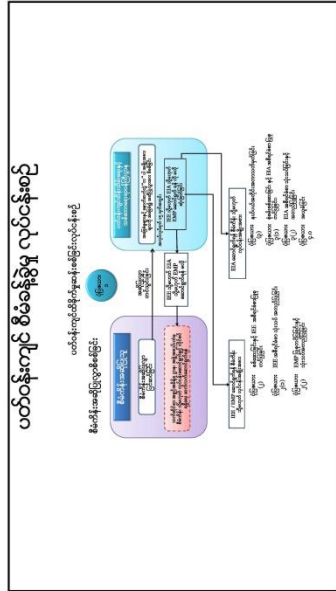
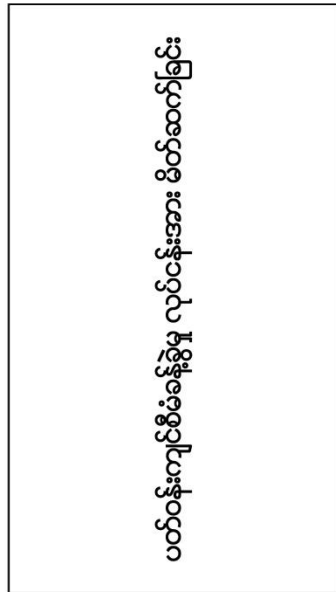
3/8/2022



3

Environmental Management Plan

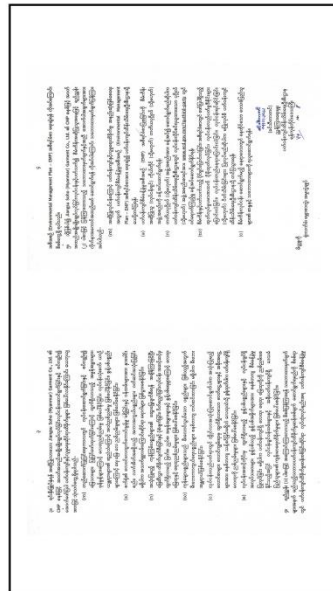
3/8/2022



4

Environmental Management Plan

3/8/2022



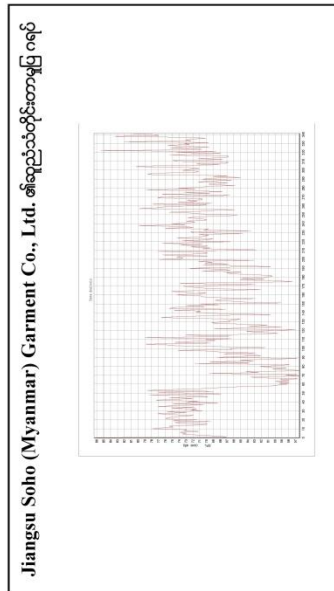
သက်ရောက်မှုဆန်းစစ်ခြင်းရလဒ်များနှင့် ထိခိုက်မှုအဆင့်သတ်မှတ်ချက်များ

[illegible]

5

Environmental Management Plan

3/8/2022



အိမ်ထောင်စုတိုင်းတာမှု

Date & Time	Location	GPS location	Noise Result	NEQ Guideline
7. January, 2022	Operation Area	16°56'17.65"N 96°5'0.38"E	69.79 dBA	70 dBA

အထက်ဖော်ပြပါ အိမ်ထောင်စုတိုင်းတာမှုအရ
Jiangsu Soho (Myanmar) Garment Co., Ltd. အိမ်ထောင်စုတိုင်းတာမှု ဇယား
Guideline အတွက်တိုင်းတာမှုကို ဆန်းစစ်တွေ့ရှိပါသည်။

အလုပ်အကိုင်တိုင်းတာမှု

No.	Location	Measure value (L.A.S)	Standard*	Remark
1	Cutting Area	632	1000	Below
2	Warehouse	67.2	300	Below
3	Quality Control	953	600	Above
4	Sewing Area	746	600	Above
5	Packing Area	898	600	Above

အလုပ်အကိုင်အလုပ်အကိုင်
တိုင်းတာမှုအရလုပ်ငန်း

လေထုတိုင်းတာမှု

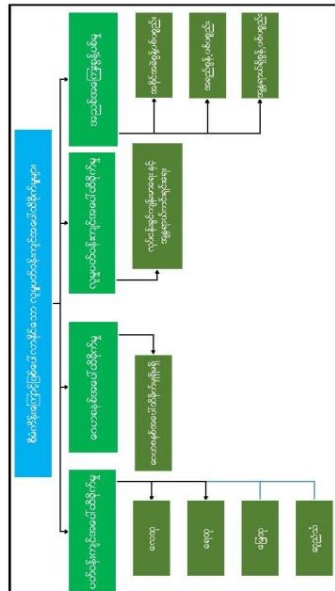
Parameters	Observed value	Guideline value	Unit	Organization	Working Period
PM ₁₀	60.13	50	µg/m³	NEQG	8 hrs
PM _{2.5}	56.86	25	µg/m³	NEQG	8 hrs
SO ₂	171.04	500	µg/m³	NEQG	8 hrs
NO ₂	11	200	µg/m³	NEQG	8 hrs
O ₃	77.62	100	µg/m³	NEQG	8 hrs
CO	0.34	10	µg/m³	NEQG	8 hrs

လေထုတိုင်းတာမှုအရလုပ်ငန်း

6

Environmental Management Plan

3/8/2022



ပတ်ဝန်းကျင်အပေါ် သက်ရောက်မှုများနှင့် ဖြေလှေ့ရေးနည်းလမ်းများ

[illegible][illegible]

7

Environmental Management Plan

3/8/2022

[illegible][illegible]

ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်

[illegible]

∞

Environmental Management Plan

3/8/2022

9

[illegible][illegible][illegible][illegible]

Environmental Management Plan

3/8/2022

လုပ်ငန်းအမျိုးအမည်	အကျဉ်းချုပ်ဖော်ပြချက်
ရေပေးစနစ်	The Underground Water Act (1959)
ရေပေးစနစ်	<ul style="list-style-type: none"> ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက် ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက် ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက်
ရေပေးစနစ်	ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက်

လုပ်ငန်းအမျိုးအမည်	အကျဉ်းချုပ်ဖော်ပြချက်
ရေပေးစနစ်	<ul style="list-style-type: none"> ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက် ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက် ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက်
ရေပေးစနစ်	ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက်

လုပ်ငန်းအမျိုးအမည်	အကျဉ်းချုပ်ဖော်ပြချက်
ရေပေးစနစ်	<ul style="list-style-type: none"> ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက် ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက် ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက်
ရေပေးစနစ်	ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက်

လုပ်ငန်းအမျိုးအမည်	အကျဉ်းချုပ်ဖော်ပြချက်
ရေပေးစနစ်	<ul style="list-style-type: none"> ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက် ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက် ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက်
ရေပေးစနစ်	ရေပေးစနစ် အကျဉ်းချုပ် ဖော်ပြချက်

10

Environmental Management Plan

3/8/2022

ပတ်ဝန်းကျင်ဆိုင်ရာစောင့်ကြည့်မှု ခန့်မှန်းကုန်ကျစရိတ်	
စဉ်	အစဉ်အဆက်အတွက် (အထောက်အကူအကူအညီ)
၁.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၂.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၃.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၄.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၅.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၆.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၇.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၈.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၉.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၀.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၁.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၂.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၃.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၄.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၅.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၆.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၇.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၈.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၁၉.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်
၂၀.	စောင့်ကြည့်မှုအတွက် အသုံးပြုသော အစားအသွယ်

လူမှုအကျိုးတူအစီအစဉ် ပါဝင်မှု	
ကုမ္ပဏီအတွက်	၀.၅ %
ပညာရေး	၀.၅ %
နယ်မြေရှိ ပြည်ထောင်စု	၀ %

စက်ရုံ၏ဆောင်ရွက်ချက်များ



11

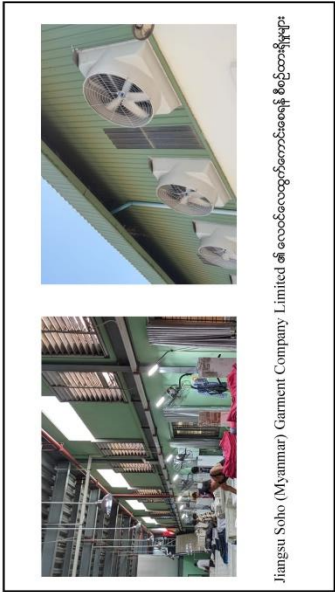
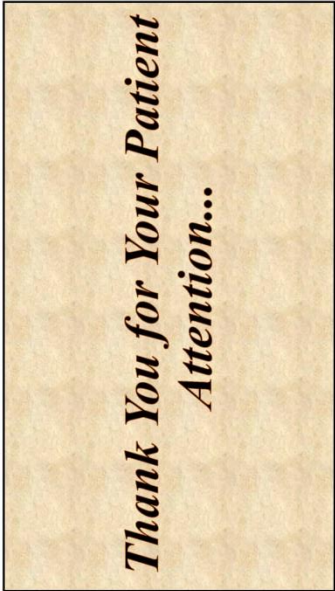
3/8/2022



12



3/8/2022



13