POLLY HK (MYANMAR) CO., LTD.

Environmental Management Plan

Laundry Service for Various Types of Clothes and Wears



25-Jan-22



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Date: 27, 1, 2022

Attention: Dear Director

Environmental Conservation Department

Subject: Environmental Management Plan (EMP) Report in respect of the Garment Laundry Service by Polly HK (Myanmar) 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.

POLLY HK (MYANMAR) CO., LTD

Plot No. 301, Myay Taing Block No.25, NaWaDay MinGyi Road, Shwe Lin Ban Industrial Zone, Hlaing Tharyar Township, Yangon Region

Date: 27, 1, 2022

Dear: Director Environmental Conservation Department Nay Pyi Taw



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

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.

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

We acknowledge and understand that



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- CEMP = Construction Environmental Management Plan
- CMP = Contract Manufacturing Process
- CSR = Corporate Social Responsibility
- ECC = Environmental Compliance Certificate
- ECD = Environmental Conservation Department
- EIA = Environmental Impact Assessment
- EMOP = Environmental Monitoring Plan
- EMP = Environmental Management Plan
- GIIP = Good International Industry Practices
- HSE = Health, Safety and Environment
- IEE = Initial Environmental Examination
- IFC = International Finance Corporation
- NEQG = National Environmental Quality (Emission) Guidelines
- MIC = Myanmar Investment Commission
- MOECAF = Ministry of Environmental Conservation and Forestry
- MONREC = Ministry of Natural Resources and Environmental Conservation
- OEMP = Operation Environmental Management Plan
- OSHA = Occupational Safety and Health Administration
- PPE = Personal Protective Equipment
- WHO = World Health Organization
- YCDC = Yangon City Development Committee
- YESB = Yangon City Electricity Supply Board

အစီရင်ခံစာအကျဉ်းချုပ်

Polly HK (Myanamr) Co., Ltd.သည် အဝတ်အထည်အမျိုးမျိုးကို လျှော်ဖွတ်ခြင်း ဝန်ဆောင်မှုပေးသော လုပ်ငန်းအတွက် ရင်နှီးမြှုပ်နံသော ကုမ္ပဏီအသစ်ဖြစ်ပါသည်။ ရင်းနှီးမြှုပ်နံမှုလိုင်စင်ကို ၂၀၁၈ခုနှစ်၊ ဇန်နဝါရီလ၊ ၃ရက်နေ့တွင် (ထောက်ခံချက်အမှတ် ရကတ-၀၄၅/၂၀၁၈)ဖြင့် ရန်ကုန်တိုင်းဒေသကြီး ရင်းနှီးမြှုပ်နံမှုကော်မတီမှ ရရှိပြီးဖြစ်ပါသည်။ လုပ်ငန်းလည်ပတ်ရန်အတွက် မြန်မာနိုင်ငံ သယံဇာတနှင့် သဘာဝပတ်ဝန်းကျင် ထိန်းသိမ်းရေးဝန်ကြီးဌာန (MONREC) ၏ အတည်ပြုချက်ရယူရန် လိုအပ်ကြောင်း ကော်မရှင်မှ မှာကြားခဲ့ပါသည်။ ထို့ကြောင့် မြန်မာနိုင်ငံ ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဥပဒေ (၂၀၁၂)အရ၊ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (EMP) ပြုလုပ်ရန်လိုအပ်ကြောင်း ၂၀၁၈ ခုနှစ်၊ အောက်တိုဘာလ၊ ၁၀ ရက်နေ့တွင် (စာအမှတ်၊ ရက-၁/၃/၄ (အီးအိုင်အေ) (၁၃၆၆/၂၀၁၈)) ဖြင့် ပတ်ဝန်းကျင်ထိန်းသိမ်းရေး ဦးစီးဌာန ရန်ကုန်တိုင်းဒေသကြီးမှ သဘောထားမှတ်ချက် ရရှိပြီးဖြစ်ပါသည်။ ထို့ကြောင့် EMP အစီအရင်စံစာရေးဆွဲရန် တတိယအဖွဲ့အစည်းဖြစ်သော Myanwei Environmental Solutions Co., Ltd. (Myanwei)မှ တာဝန်ယူရေးဆွဲခဲ့ပါသည်။ ရင်းနှီးမြှုတ်နံမှု ပမာဏမှာ အမေရီကန်ဒေါ်လာ ၁ သန်း.

| လုပ်ငန်းအမျိုးအစား | အဝတ်အထည် ရော်ဖွတ်ခြင်း လုပ်ငန်း |
|----------------------------|---|
| ရင်းနှီးမြှုပ်နှံမှု ပုံစံ | ၁၄၇ % နိုင်ငံခြားသား ရင်းနီးမြှုပ်နှံမှု |
| မြေအမျိုး အစား | စက်မှုမြေ |
| မြေဧရိယာ | ၂.၇၁၃ ကေ |
| အဆောက်အဦး ဧရီယာ | ၁၄ဂ × ၄ဂဂ ပေ (တစ်ထက် အဆောက်အအုံ-ရှော်ဖွတ်ချင်းပြုလုပ်ရန်) ၄ဂ × ၁ဂဂ ပေ (တစ်ထက် အဆောက်အအုံ-ရုံးခန်း) |
| မြေငှားနစ် | နစ် ၆၀ |
| တည်ဆောက်ရေးကာလ | ၁ နစ် |
| စတင်တည်ဆောက်သည့်နေ့ | ၁၈ ရက် မေလ ၂၀၁၈ ခုနှစ် |
| လုပ်ငန်းလည်ပတ်သည့်နေ့ | ၉ ရက် နိဝင်ဘာလ ၂၀၁၉ ခုနှစ် |
| စက်ရုံလိပ်စာ | မြေကွက် အမှတ် ၃၊၁၊ မြေတိုင်းအမှတ် ၂၅၊ နဝဒေးမင်းကြီးလမ်း၊ ရွှေလင်ဘန်းစက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်။ |
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| | |
| | 09-0421017607 |

EMP အစီအစဉ်တွင် စက်ရုံတွင် ဖြစ်ပေါ် စေနိုင်သော ပတ်ဝန်းကျင်နှင့် လူမှုဘဝအပေါ် ဆိုကျိုးသက်ရောက်မှုများကို လျှော့ချရေး၊ စီမံခန့်ခွဲရေးနှင့် စောင့်ဂြာပ်ကြည့်ရှုရေး အစရှိသည့် အစီအစဉ်များ ပါဝင်ပါသည်။ ၄င်း EMP အစီအစဉ်များကို အကောင်အထည်ဖော်ရန်အတွက် Polly HK (Myanmar) Co., Ltd. သည် စက်ရုံတွင် ကျမ်းမားရေး၊ ဘေးအွန္တရာယ်ကင်းရှင်းရေးနှင့် ပတ်ဝန်းကျင်ဆိုင်ရာ အဖွဲ့အစည်းတစ်ခုထားရှိပြီး လျှော့ချရေး၊ စီမံခန့်ခွဲရေးနှင့် စောင့်ကြပ်ကြည့်ရှုရေး အစီအစဉ်များကို ကောင်အထည်ဖော်သွားမည်ဖြစ်သည်။

Polly HK (Myanmar) Co., Ltd. စက်ရုံသည် မြေကွက်အမှတ် ၃၀၁၊ မြေတိုင်းအမှတ် ၂၅၊ ရွှေလင်ဗန်း စက်မှုနယ်မြေ၊ လှိုင်သာယာမြို့နယ်တွင် တည်ရှိပါသည်။ စက်ရုံ၏အကျယ်အဝန်းမှာ ၂ ဒသမ ၇၁၃ ဧက ရှိပြီး ဝန်းအတွင်းတွင် တစ်ထပ် အဆောက်ဦး (ပေ ၄၀၀ × ပေ ၁၆၀)တွင် လျှော်ဖွတ်ခြင်းလုပ်ငန်းကို လုပ်ဆောင်လျက် ရှိပါသည်။ လုပ်ငန်းဆောင်ရွက်သည့် ရင်းနီးမြှုပ်နံမှုကာလမှာ ၂၀၁၈ ခုနှစ် မတ်လဖြစ်ပြီး၊ စတင်လုပ်ငန်းလည်ပတ်သည့်ခုနစ်မှာ ၂၀၁၉ ခုနစ် နိဝင်ဘာလ ဖြစ်ကြောင်းသိရပါသည်။ အဆောက်အဦးတွင် အဝတ်အထည်ထားသည့်နေရာ၊ အဝတ်လျှော်စက်နေရာ၊ ရှေညစ်စက်နေရာ၊ မလျော်ဖွတ်မှီ အဝတ်အခြောက်ခံစက်နေရာနှင့် အဝတ်ခေါက် ထုတ်ပိုးသည့်နေရာ အစရှိသည့်ဖြင့် ပိုင်းခြားဖွဲ့စည်းထားပါသည်။ လျှပ်စစ်ခန်း၊ မီးစက်ခန်းနှင့် ရေဆိုးသန့်စင်စက်နေရာများကို သီးခြားစီဖွဲ့စည်းတည်ဆောက်ထားပါသည်။ စက်ရုံ၏ အဓိကလုပ်သော အဝတ်အထည်လျော်ဖွတ်ခြင်း လုပ်ငန်းသည် အလွန်ရိုးရှင်းပြီး၊ ဘေးထွက်ဆိုးကျိုးများသော ဓါတုပစ္စည်းအသုံးပြုခြင်းမရှိပါ။ ထို့ကြောင့် စက်ရုံ၏ လုပ်ငန်းလည်ပတ်မှုကြောင့် သဘာဝပတ်ဝန်းကျင်အပေါ် ဆိုးဆိုးဝါးဝါးထိခိုက်မှု မရှိကြောင်း လေ့လာတွေ့ ရှိခဲ့ပါသည်။

စက်ရုံနှင့်ဆက်စပ်သက်ဆိုင်နေပြီး လိုက်နာရမည့် ဥပဒေနှင့် နည်းဥပဒေများ၊ MONREC မှ ထုတ်ပြန်ထားသည့် ပတ်ဝန်းကျင်ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်းများ၊ အမျိုးသားပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက်များ၊ စက်ရုံနှင့်သက်ဆိုင်သည့် ဒေသတွင်း သို့မဟုတ် အပြည်ပြည်ဆိုင်ရာ သဘာဝပတ်ဝန်းကျင်နှင့် လူမှုပတ်ဝန်းကျင်ဆိုင်ရာ မူဝါဒများ၊ ဆက်စပ်နေသည့် နိုင်ငံတကာသဘောတူချက်များကို အကျဉ်းချုပ်ရေးသားဖော်ပြထားပါသည်။

- 1. The Constitution Law, 2008
- 2. The Environmental Conversation Law, 2012
- 3. The Environmental Conversation Rule, 2014
- 4. Environmental Impact Assessment Procedure, 2015
- 5. National Environmental Quality (Emission) Guideline, 2015
- 6. National Myanmar Environmental Policy, 2019
- 7. Foreign Investment Law, 2012
- 8. Foreign Investment Rule, 2013
- 9. Myanmar Investment Rule, 2017
- 10. Myanmar Insurance Law, 1993

- 11. Payment of Wages Law, 2016
- 12. The Payment of Wages Act, 1936
- 13. Yangon City Development Committee Law, 2018
- 14. The Amended Law for Factories Act, 1951 (2016)
- 15. The Private Industrial Enterprise Law
- 16. The Export and Import Law, 2012
- 17. The Prevention of Hazard from Chemical and Related Substances Law, 2013
- 18. The Underground Water Act
- 19. Myanmar Fire Brigade Law, 2015
- 20. Fire Safety Procedure
- 21. The Electricity Law, 2014
- 22. Boiler Law, 2015
- 23. Labor Dispute Settlement Law, 2012
- 24. The Law Amending the Settlement of Labor Dispute Law, 2019
- 25. The Social Security Law, 2012
- 26. The Employment and Skill Development, 2013
- 27. The Worker's Compensation Act, 1923
- 28. The Leave and Holidays Act (1951, partially reused in 2014)
- 29. The Minimum Wage Law, 2013
- 30. Public Health Law, 1972
- 31. Prevention and Control of Communicable Disease Law (1995 Amendment in 2011)
- 32. Occupational Safety and Health Law, 2019
- 33. The Law on Standardization
- 34. လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတက်သော ဝတ္ထုပစ္စည်းများဆိုင်ရာ ဥပဒေ၊ (2018)
- 35. The Motor Vehicles Law, 2015

36. The Conservation of Water Resources and River Law, 2006

37. The Commercial Tax Law (1990 Amended 2014)

လက်ရှိပတ်ဝန်းကျင်၏ ပတ်ဝန်းကျင်ဆိုင်ရာအချက်အလက်နှင့် အခြေခံလေ့လာမှုများဖြစ်သည့် ပတ်ဝန်းကျင်အရည်အသွေးတိုင်းတားခြင်းများကို ၂၀၁၈ ခုနှစ်၊ အောက်တိုဘာလ၊ ၃၀ ရက်နေ့တွင် ပြုလုပ်ခဲ့ပါသည်။ စက်ရုံအတွင် အပူချိန်နှင့် စိုထိုင်းမှုတိုင်းတာတာခြင်း၊ ဆူညံသံတိုင်းတာခြင်းနှင့် လုပ်ငန်းခွင် အလင်းအခြေအနေ တိုင်းတာခြင်းများကို ပြုလုပ်ခဲ့ပြီး ရလဒ်များကို နောက်ဆက်တွဲတွင် အသေးစိတ် ဖော်ပြထားပါသည်။ ထို့အပြင် စက်ရုံတည်နေရာနှင့် သက်ဆိုင်သည့် အချက်အလက်များဖြစ်သော လူမှုစီးပွားအခြေအနေ၊ ရူပပတ်ဝန်းကျင်ဆိုင်ရာ အချက်အလက်များ၊ ဇီဝပတ်ဝန်းကျင်ဆိုင်ရာ အချက်အလက်များ၊ ရာသီဥတုဆိုင်ရာ အချက်အလက်များ အစရှိသည့်များကို ရန်ကုန်တိုင်းဒေသကြီး၊ လှိုင်သာယာမြို့နယ်ရှိ တရားဝင် ပြဌာန်းထားသော မြို့နယ်ဆိုင်ရာအချက်အလက်များမှ ကိုးကားဖော်ပြထားပါသည်။

စက်ရုံ၏လုပ်ဆောင်မှုများကြောင့် ဖြစ်ပေါ် လာနိုင်သည့် ပတ်ဝန်းကျင်ဆိုင်ရာထိခိုက်နိုင်မှုများကို ကွင်းဆင်းလေ့လာခြင်း၊ စီမံကိန်းအကြောင်းအရာများကို စက်ရုံမန်နေဂျာ၊ အရည်အသွေး ထိန်းချုပ်စစ်ဆေးကြီးကြပ်ရေးမှုးတို့နှင့် ဆွေးနွေးမေးမြန်းခြင်း၊ ပတ်ဝန်းကျင်ဆိုင်ရာ အချက်အလက်များကို လေ့လာသုံးသပ်ပြီး စီမံကိန်းကာလတွင် ဖြစ်နိုင်ခြေရှိသော ထိခိုက်မှုများကို အဆင့်သတ်မှတ်ချက် (၄) ခုဖြင့် ခွဲခြားသတ်မှတ်ထားပါသည်။ ၄င်းတို့မှာ-

- ၁။ က-: သိသာသော ဆိုးကျိုးသက်ရောက်မှု က+: သိသာသော ကောင်းကျိုးသက်ရောက်မှု
- ၂။ စ-: ဆိုးကျိုးသက်ရောက်မှု အချို့ရှိခြင်း

ခ+: ကောင်းကျိုးသက်ရောက်မှု အချို့ရှိခြင်း

- ၃။ ဂ: အကျိုးသက်ရောက်မှု မရှင်းလင်းသဖြင့် ထပ်မံလေ့လာသင့်သည်
- ၄။ ဃ: အကျိုးသက်ရောက်မှု မရှိသလောက်ဖြစ်၊ ထပ်မံလေ့လာရန်မလို

သတ်မှတ်ထားသော အဆင့်သတ်မှတ်ချက်များအလိုက် ဖြေလျှော့ရေးနည်းလမ်းများဖြင့် ရှောင်လွှဲရန်နည်းလမ်းများကို ဖော်ပြထားပါသည်။

သက်ဆိုင်သူများနှင့် တွေ့ဆုံဆွေးနွေးခြင်း အစီအစဉ်ကို ၂၆ ရက်၊ ဒီဇင်ဘာလ၊ ၂၀၁၈ ခုနှစ်တွင် ရွှေလင်ဗန်းစီမံခန့်ခွဲရေးကော်မတီရုံး၊ ကနောင်ခန်းမတွင် ပြုလုပ်ခဲပါသည်။ ပြုလုပ်ခဲ့သည့် အစီအစဉ်အကျဉ်းကို **အခန်း** ၆ တွင် ဖော်ပြထားပါသည်။

အဆိုပါစက်ရုံ၏ ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်ကို ရေရှည်ဖွံ့ဖြိုးတိုးတက်ကောင်းမွန်သော ပတ်ဝန်းကျင်အဖြစ် အကောင်အထည်ဖော်ဆောင်ရွက်ရန် ပတ်ဝန်းကျင်ဆိုင်ရာ ဆိုးကျိုးသက်ရောက်မှုများကို

စီမံခန့်ခွဲမှုအစီအစဉ်များနှင့် စောင့်ကြပ်ကြည့်ရှုရမည့်အစီအစဉ်များကို အောက်ပါအတိုင်း လျော့နည်းစေရန်

• ဆူညံသံစီမံခန့်ခွဲမှုအစီအစဉ်

• လေ့ကျင့်ရေးအစီအစဉ်

• မကျေပ်နပ်မှုများအားဖြေရှင်းခြင်း

• လူထုအကျိုးပြုပူးပေါင်းမှုအစီအစဉ်

အမှိုက်စွန့်ပစ်မှုစီမံခန့်ခွဲမှုအစီအစဉ်

အရည်စွန့်ပစ်မှုစီမံခန့်ခွဲမှုအစီအစဉ်

• မီးဘေးအန္တရာယ်စီမံခန့်ခွဲမှုအစီအစဉ်

• အန္တရာယ်ရှိအမှိုက်စွန့်ပစ်မူစီမံခန့်ခွဲမှုအစီအစဉ်

• အရေးပေါ် ကာကွယ်ရေးစီမံခန့်ခွဲမှုအစီအစဉ်

• ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုရေးအစီအစဉ်

ဒေသဖွံ့ဖြိုးရေးလုပ်ငန်းစီမံချက်ကို ဇယားတွင် ဖော်ပြထားပါသည်။

ပတ်ဝန်းကျင်ဆိုင်ရာ အကြောင်းအရာတစ်ခုချင်းစီအလိုက် ခွဲခြားပြုလုပ်ထားပါသည်။

လုပ်ငန်းခွင်အွန္တရာယ်ကင်းရှင်းရေးနှင့် ကျန်းမာရေးစီမံခန့်ခွဲမှုအစီအစဉ်

| စဉ် | အကြောင်းအရာ | လှူဒါန်းမှု ရာခိုင်နှုန်း |
|-----------------|--|---------------------------|
| SI | စာသင်ကျောင်းများ | ი.ე% |
| ال | သင်တန်းကျောင်းများ | ე% |
| ا اح | လန်ထမ်းများ၏ ကျန်းမာရေးစောင့်ရှောက်မှု | ი.ე% |

အဆိုပါ စက်ရုံသည် ရရှိလာသော အကျိုးအမြတ်၏ ၂% ကို လူမှုဖူလုံရေးလုပ်ငန်းများတွင် သုံးစွဲသွားမည်

ဖြစ်ပါသည်။ လူမှုဖူလုံရေးလုပ်ငန်းများတွင် အလုပ်သမားများကို စွမ်းရည်တိုးတက်ရေးဆိုင်ရာ သင်တန်းများပေးခြင်း၊

တရုတ်ဘာသာစကားသင်တန်းများ ပို့ချပေးခြင်း၊ လိုအပ်သော ကျန်းမာရေးအသိပညာပေးခြင်း၊ ကျန်းမာရေး

စောင့်ရှောက်ပေးခြင်းများကို ဆောင်ရွက်သွားမည် ဖြစ်ပါသည်။ ဥပမာအနေနှင့် ဒေသဖွံ့ဖြိုးရေးလုပ်ငန်းစီမံချက်

အနေဖြင့် စက်ရုံအနီးပန်းကျင်ရှိ စာသင်ကျောင်းများကို လှူဒါန်းမှုများကို ပြုလုပ်သွားမည်

အကျဉ်းချုပ်အားဖြင့် ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်၏ လမ်းညွှန်ချက်များ၊ ပတ်ဝန်းကျင်ဆိုင်ရာ ဥပဒေ၊ နည်းဥပဒေ၊ စည်းမျဉ်းစည်းကမ်းများနှင့် ချမှတ်ထားသော မူဝါဒလမ်းညွှန်ချက်များအတိုင်း ပတ်ဝန်းကျင်ဆိုင်ရာ စီမံခန့်ခွဲမှု အလေ့အကျင်များ၊ လုပ်ငန်းစဉ်များနှင့် လိုက်နာဆောင်ရွက်ကျင့်သုံးရန်တာဝန်များကို ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု သက်ဆိုင်သူများအား ဖော်ပြရှင်းလင်းတင်ပြထားပါသည်။ စီမံကိန်းနင့် အစီအစဉ်တွင် စီမံကိန်းဆိုင်ရာ

ဖြစ်ပါသည်။

25-Jan-22

အကြောင်းအရာများ ရှင်းလင်းတင်ပြခြင်း၊ အကြံပြုချက်များနှင့် ဆွေးနွေးတင်ပြလာသည့် သဘောထား အကြံဉာက်များကိုရယူပြီး အစီအရင်ခံစာတွင် ဖော်ပြထားပါသည်။

EXECUTIVE SUMMARY

Polly HK (Myanmar) Co., Ltd. is a new investment for laundry service for various types of clothes and wears company from China. The Yangon Regional Investment Commission (YRIC) has endorsed the project for the investment on 11, April, 2018 (Endorsement No. YGN-045/2018). YRIC asked 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 laundry service under the name of Polly HK (Myanmar) Co., Ltd. (Polly HK) as a solely owned foreign investment from the China. The estimated authorized capital investment is about 10,000,000 US

| Type of Proposed Business | Laundry Service for Various Types of Clothes and Wears |
|-----------------------------|---|
| Type of investment | 100% foreign investment |
| Type of Share | Ordinary Share |
| Type of land | Industrial Land |
| Total land area | 2.713 acre |
| Total building area | 160' x 400' one storey building (Laundry service) 40' x 100' one storey building (office) |
| Land lease year | 60 years |
| Construction period | 1 year |
| Construction Start Date | May 18, 2018 |
| Operation starting date | November 9, 2018 |
| Address of Polly HK factory | Plot No. 301, Myay Taing Block No. 25, NaWaDay MinGyi Road, Shwe Lin Ban Industrial Zone, Hlaing Tharyar Township, Yangon region. |
| Contact phone | 09-0421017607 |

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), the said project requires an Environmental Management Plan (EMP) to meet the environmental assessment requirements of Notification No. YaKa-1/3/4 (EIA) (1366/2018) on 16, October, 2018. Therefore, Polly HK commissioned Myanwei Environmental Solutions Company Limited (Myanwei) for EMP report study.

Polly HK laundry service factory is located at Plot No. 301, Myay Taing Block No. 25, NaWaDay MinGyi Road, Shwe Lin Ban Industrial Zone, Hlaing Tharyar Township, Yangon region. The total area of project site is 2.713 acre. There is one story building (160' × 400') for laundry service and (40' × 100') for office at project site. Main structure is designed into washing section, drying section and folding section. Transformer room, generator room and wastewater treatment plant are separated by main factory building structure.

The Utilities for proposed factory include electrical power, fuel oil for emergency used generator and water for cloths and wears laundry. Electric power is used for the purpose of to run the

washing machinery and to provide lighting. Wastewater treatment plant is provided for the laundry process to treat the discharge water from washing machine.

The next Chapter, provides 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. National Laws and Regulations, International Guidelines are referred for Environmental Management Plan of the proposed project.

- 38. The Constitution Law, 2008
- 39. The Environmental Conversation Law, 2012
- 40. The Environmental Conversation Rule, 2014
- 41. Environmental Impact Assessment Procedure, 2015
- 42. National Environmental Quality (Emission) Guideline, 2015
- 43. National Myanmar Environmental Policy, 2019
- 44. Foreign Investment Law, 2012
- 45. Foreign Investment Rule, 2013
- 46. Myanmar Investment Rule, 2017
- 47. Myanmar Insurance Law, 1993
- 48. Payment of Wages Law, 2016
- 49. The Payment of Wages Act, 1936
- 50. Yangon City Development Committee Law, 2018
- 51. The Amended Law for Factories Act, 1951 (2016)
- 52. The Private Industrial Enterprise Law
- 53. The Export and Import Law, 2012
- 54. The Prevention of Hazard from Chemical and Related Substances Law, 2013
- 55. The Underground Water Act
- 56. Myanmar Fire Brigade Law, 2015

- 57. Fire Safety Procedure
- 58. The Electricity Law, 2014
- 59. Boiler Law, 2015
- 60. Labor Dispute Settlement Law, 2012
- 61. The Law Amending the Settlement of Labor Dispute Law, 2019
- 62. The Social Security Law, 2012
- 63. The Employment and Skill Development, 2013
- 64. The Worker's Compensation Act, 1923
- 65. The Leave and Holidays Act (1951, partially reused in 2014)
- 66. The Minimum Wage Law, 2013
- 67. Public Health Law, 1972
- 68. Prevention and Control of Communicable Disease Law (1995 Amendment in 2011)
- 69. Occupational Safety and Health Law, 2019
- 70. The Law on Standardization
- 71. လုပ်ငန်းခွင်သုံးပေါက်ကွဲစေတက်သော ဝတ္ထုပစ္စည်းများဆိုင်ရာ ဥပဒေ၊ (2018)
- 72. The Motor Vehicles Law, 2015
- 73. The Conservation of Water Resources and River Law, 2006
- 74. The Commercial Tax Law (1990 Amended 2014)

For environmental baseline, data were collected by onsite measurements analysis during operation phase on 30 October 2018. 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 Hlaing Tharyar Township.

In the next Chapter, the potential environmental impacts brought by various activities of proposed lubricant manufacturing process were identified by site surveying with checklist, meeting with client and assessing the environmental baseline information for the project along with its mitigation measure. The methodological approach used for the project impact assessment is adapted from the impact assessment methods recommended by the Canadian Environmental Assessment Agency (1990), by the World Bank (1991) and by the International Finance Corporation (Dec. 1998).

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.

The impacts of pollution, natural environment and social environment, health and safety, emergency risk, and others were classified as A to D in accordance with the following criteria, assuming no specific measures toward the impacts are taken:

- A⁺: Significant negative impact
 A⁺: Significant positive impact
- ➢ B⁺: Some negative impact
 B⁺: Some positive impact
- > C: Impacts are not clear, need more investigation
- > D: No impact or impacts are negligible, no further study required

Significant impacts and proposed mitigation measures of the proposed factory were taken into consideration during the study.

Public participation can be considered as the required element of the EMP process. In this study various stakeholder's participation were made. On 26, December 2018, a public consultation and disclosure ceremony were held at the KaNaung Hall, Shwe Lin Ban Industrial Zone Management Committee Office, Hlaing Tharyar Township, Yangon.

The Environmental Management Plan (EMP) is prepared for the proposed project that covers the anticipated impacts of the said project, mitigation measures, management and monitoring plans during each of the phases. The development of the proposed project will be managed by Polly HK Co., Ltd. The project proponent should appoint Health, Safety and Environment (HSE) issues throughout the duration of the project phases. HSE team is responsible for implementation of EMP and Environmental Monitoring Plan (EMoP).

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

- Air Quality Management Plan
- Noise Management plan
- Solid Waste Management plan
- Liquid Waste Management Plan
- Fire Management Plan
- Occupational Safety and Health Management Plan
- Hazardous Waste Management Plan
- Emergency Response and Management Plan
- Environmental Monitoring Schedule and Reporting
- Capacity Building and Training Plan
- Grievance Redness Mechanism (GRM)
- Corporate Social Responsibility (CSR) Plan

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 feedbacks, desired and needs of local public recorded in public consultation meetings are well addressed and incorporated in formulation of EMP.

1. INTRODUCTION

1.1. PROJECT BACKGROUND

Polly HK (Myanmar) Co., Ltd. is a new investment for laundry service for various types of clothes and wears company from China. The Yangon Regional Investment Committee (YRIC) has endorsed the project for the investment on 11, April 2018 (Endorsement No. YGN-045/2018). YRIC asked 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 laundry service under the name of Polly HK (Myanmar) Co., Ltd. (Polly HK) 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), the said project requires an Environmental Management Plan (EMP) to meet the environmental assessment requirements of Notification No. YaKa-1/3/4 (EIA) (1366/2018) on 16, October, 2018. Therefore, Polly HK commissioned Myanwei Environmental Solutions Company Limited (Myanwei) for EMP report study.

1.1.1. Project Proponent Profile

This is the information of project proponent from the MIC's registration that is describing in below Table 1-1 and Table 1-2. The estimated authorized capital investment is about 10,000,000 US Dollar (Table 1-2). Organization chart of Polly HK (Myanmar) Co., Ltd. is presented in Figure 1-1.

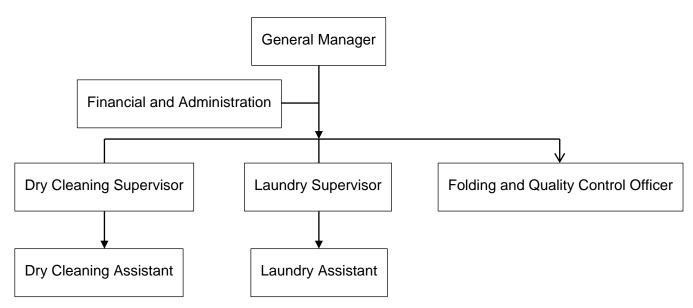
| Investor Name: | Ms. Songlin Gong |
|---------------------------------|--|
| ID No.: | PP. no. E 96366756 |
| Citizenship: | Chinese |
| Address of Registration office: | 82Ai Goo Dong Yang, Zhejiang Province, China |
| Phone no.: | 13806779779 |

Table 1-1Information of Polly HK (Myanmar) Co., Ltd.

| Table 1-2 | Salient features | of the project |
|-----------|------------------|----------------|
| | • anone roataroo | |

| Type of Proposed Business | Laundry Service for Various Types of Clothes and Wears |
|---------------------------|--|
| Type of investment | 100% foreign investment |
| Type of Share | Ordinary Share |
| Type of land | Industrial Land |
| Total land area | 2.713 acre |
| Total building area | 160' x 400' one storey building (Laundry service) 40' x 100' one storey building (office) |
| Land lease year | 60 years |
| Construction period | 1 year |

| Construction Start Date | May 18, 2018 |
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| Contact phone | |
| | 09-0421017607 |





1.1.2. Environmental Consultant Profile

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

| Name | Qualification | Responsibility | |
|--|--|---|--|
| MYANWEI ENVIRONMENTAL SOLUTIONS COMPANY Limited | Transition Consultant Registration Certificate No. 0069 | EIA Organisation No. 36-38, 9th floor (A), Grand Myay Nu Condo, Myay Nu Street, Sanchaung Township, Yangon, Myanmar. 01-7501221 | |

| Table 1-3 | Member of EMP Study Team |
|-----------|--------------------------|
|-----------|--------------------------|

Environmental Management Plan

| 25- | lan- | .22 |
|------|------|-----|
| 20-0 | Jan | ~~ |

| Name | Qualification | Responsibility | |
|---------------------------|--|---|--|
| 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 TCR No. 0048 | Project Director, Environmental consultant, project management | |
| Ms. Wah Wah Zaw | B.E Material and Metallurgy EngineeringDiploma in Environmental Planning andManagementM.S Environmental Planning andManagement | Senior Environmental Consultant, Social and Environmental Research, Quality control, Environmental planning and 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. Aung Kyaw Moe | B.E. Chemical Engineering B. Tech Chemical Engineering | Junior Environmental Consultant, monitoring measure, document administration | |
| 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 | Junior Environmental Consultant, monitoring measure, document administration | |
| Mr. Htoo Nanda Aung | B.Sc (Forestry) | Junior Environmental Consultant, monitoring measure, document administration | |
| Mr. Si Yan Hein | B.Sc (Geology) | Junior Environmental Consultant, monitoring measure, document administration | |
| Mr. Kaung Sett Lwin | B.Sc (Hons) Geology | Junior Environmental Consultant, monitoring measure, document administration | |

| MO | Ministry of Natural Resources | IE UNION OF MYANMAR and Environmental Conservation servation Department |
|----------------------------|---|--|
| | | IAL CONSULTANT REGISTRATION ဂ်ပုံတင်ခြင်းအထောက်အထားလက်မှတ်) |
| No. |)0068 | Date 2 4 MAY 2019 |
| certifi No. 61 (ပတ်င | cate to the organization under Environm 16/2015.)န်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံး | wironmental Conservation, hereby, issues this iental Impact Assessment Procedure, Notification းလုပ်နည်း၊ အမိန့်ကြော်ငြာစာအမှတ်၊ ၆၁၆/၂၀၁၅ အရ |
| | | းဝန်ကြီးဌာနသည် ဤအထောက်အထားလက်မှတ်ကို |
| ထုတ်ရ | ပေးလိုက်သည်။) | |
| (a) | Name of Organization (အဖွဲ့အစည်းအမည်) | Myanwei Consulting Co., Ltd. |
| (b) | Name of the representative in the organization (အဖွဲ့ အစည်းကိုယ်စားလှယ်၏အမည်) | U Nyan Lynn Aung |
| (c) | Citizenship of the representative in the organization (အဖွဲ့ အစည်းကိုယ်စားလှယ်၏နိုင်ငံသား) | Myanmar |
| (d) | Identity Card /Passport Number of the representative person in the organization (အဖွဲ့ အစည်းကိုယ်စားလှယ်၏ 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: <u>ceo@myanweiconsulting.com</u> |
| (f) | Type of Consultancy (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား) | Organization |
| (g) | Duration of validity (သက်တမ်းကုန်ဆုံးရက်) | 31 December 2019 |
| | | Director General |
| | Envir | onmental Conservation Department |

Ministry of Natural Resources and Environmental Conservation

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 ang ang for fores EXTENSION သက်တစ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ງົງເນດກິບຸດອີສາ:(ວ-ວ-ງຍງຍ) ရက်နေ့မှ (၃ဝ-ວງ-ງຍງຍ) ရက်နေ့အထိတစ်နည်သွက်တစ်းတိုးမြှင့်သည်း (၁၉ ပြင်းစင် General (See Vinge Director General Ber 2803 adoce . 2:8:524 (Soe Naing, Director) Environmental Conservation Department uosos:m EXTENSION EXTENSION EXTENSION သက်တမ်းတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ဤလက်မှတ်အား(၁-၇-၂၀၂၁) ရက်နေ့မှ (၃၁-၁၂-၂၀၂၁) ရက်နေ့အထိ (၆)လ သက်တစ်းတိုးမြှင့်သည်။ For Director General (Soe Naing, Director) Environmental Conservation Department သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended The VALIDITY of this certificate is extended for six month from (1.1.2021) to (30.6.2021) ဤလက်မှတ်အား(၁-၁-၂၀၂၁) ရက်နေ့မှ(၃၀-၆-၂၀၂၁) ရက်နေ့အထိ (၆)လူသက်တွမ်းတိုးမြှင့်သည်။ mon (Soe Naing, Director) Environmental Conservation Department



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

- (အဖွဲ့အစည်း) (f) Type of Consultancy
- (၂) Type of consultancy (အကြံပေးလုပ်ကိုင်မှုအမျိုးအစား)
- (g) Duration of validity (သက်တမ်းကုန်ဆုံးရက်)

Person

31 March 2018

EXTENSION ertific (1.4.2018) to (31 3 2019) For Director General (Soe Naing, Director Environmental Con rvation D partment

1: 0: 60m

Director General Environmental Conservation Department Ministry of Natural Resources and Environmental Conservation POLLY HK (MYANMAR) CO., LTD. Environmental Management Plan

14.9

Areas of Expertise Permitted (ခွင့်ပြုသည့် ကျွမ်းကျင်မှုနယ်ပယ်များ)

1. Geology and Soil



EXTENSION သက်တမ်းတိုးမြှင့်ခြင်း The VALIDITY of this certificate is extended for six months from (1.7.2021) to (31.12.2021) ဤလက်မှတ်အား(၁-၅-၂၀၂၁) ရက်နေ့မှ (၃၁-၁၂-၂၀၂၁) ရက်နေအထိ (၆) လူသက်တမ်းတိုးမြှင့်သည်။ For Director General (Soe Naing, Director) Environmental Conservation Department EXTENSION သက်တမ်းတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for nine months from (1.4.2019) to (31.12.2019) ຫຼາດກົດຮູ້ອາດີຜູ້ (ຄູ່-ດ້ວຍ) ດຳຕິເຣຍ (ລະວັງ, ເວດອູ) ດຳຕິເຮືອກດີ (ຄູ່ໄດ້ແລະ ເປັນເປັນ ດຳຕິເຮັດອາດີ (ຄູ່ໄດ້ເປັນເປັນ For Director General (Soe Naing, Director) Environmental Conservation Department

EXTENSION သက်တမ်းတိုးဖြင့်ခြင်း The VALIDITY of this certificate is extended for one year from (1.1.2020) to (31.12.2020) ကိုလက်မှတ်အား(၁-၁-၂၀၂၀) ရက်နေ့မှ (၃၁-၁၂-၂၀၂၀) ရက်နေ့အထိတစ်နစ်သက်တမ်းတိုးမြှင့်သည်။ For Director General (Soe Naing, Director) Environmental Conservation Department

Myanwei Environmental Solutions Company Limited

2. PROJECT DESCRIPTION

2.1. LOCATION

Polly HK laundry service factory is located at Plot No. 301, Myay Taing Block No. 25, NaWaDay MinGyi Road, Shwe Lin Ban Industrial Zone, Hlaing Tharyar Township, Yangon region. Location map is as shown in Figure 2-1.

2.2. SITE DESCRIPTION

The total area of project site is 2.713 acre. There is one story building $(160' \times 400')$ for laundry service and $(40' \times 100')$ for office at project site. The factory layout plan can be seen in Figure 2-3. Main structure is designed into washing section, drying section and folding section. Transformer room, generator room and wastewater treatment plant are separated by main factory building structure.

POLLY HK (MYANMAR) CO., LTD.

Environmental Management Plan

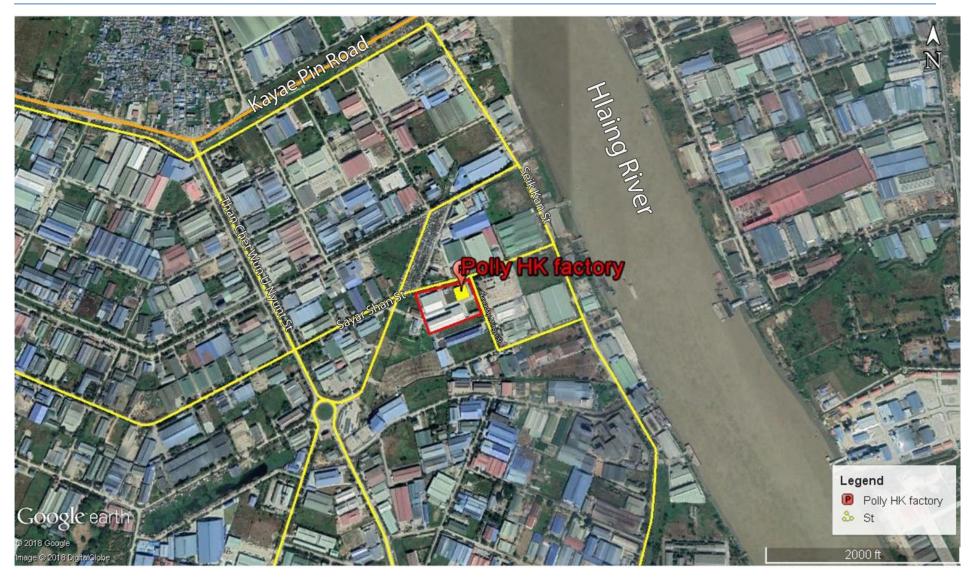


Figure 2-1 Location map of Polly HK factory

POLLY HK (MYANMAR) CO., LTD.

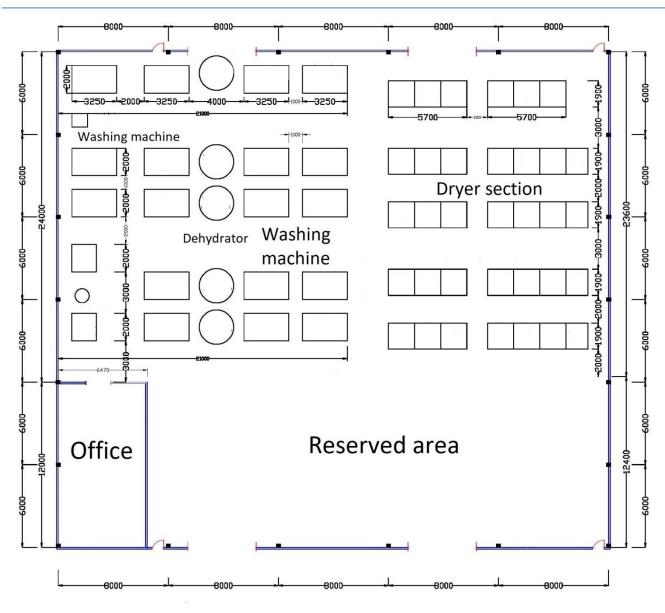
Environmental Management Plan



Figure 2-2 Site layout map of Polly HK factory

25-Jan-22

Environmental Management Plan





2.3. PROJECT OPERATION

2.3.1. Utilities

The Utilities for proposed factory include electrical power, fuel oil for emergency used generator and water for cloths and wears laundry. Electric power is used for the purpose of to run the washing machinery and to provide lighting. Wastewater treatment plant is provided for the laundry process to treat the discharge water from washing machine.

2.3.2. Machinery and equipment

Lists of machinery and equipment required for the Polly HK factory is following in Table 2-1. The Polly HK (Myanmar) Co., Ltd factory was operated 312 days per year.

Environmental Management Plan

| Table | Table 2-1 List of machinery of Polly fix factory | | |
|-------|--|-------|----------|
| No. | Machinery Name | Asset | Quantity |
| 1 | Washing Machine (M) | set | 8 |
| 2 | Washing Machine | set | 1 |
| 3 | Centrifugal Extractor | set | 3 |
| 4 | Drying Machine | set | 15 |
| 5 | Drying Oven | set | 1 |
| 6 | Blower | set | 1 |

Table 2-1 List of machinery of Polly HK factory

2.3.3. Work force

Human resource required by foreign experts/technicians and local persons for administrative and production process (Table 2-2). The project runs 55 days in a year and the working hours is from 7 AM to 5 PM in week days including Saturday. Currently, one shift (8 hours + overtime 2 hours) of production is running or operating.

| numan resource requirement | |
|----------------------------|--|
| Number of employees | |
| 1 | |
| 2 | |
| 5 | |
| 27 | |
| 10 | |
| 3 | |
| 4 | |
| 3 | |
| 55 | |
| | |

T-1.1- 0.0 . . .

2.3.4. Water

Shwe Lin Ban industrial zone 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 in the storage tanks for the factory including laundry service and domestic use. The project was use groundwater for laundry use, domestic use and firefighting. The groundwater stores in the three storage tanks on one-ground tanks with capacity of 10,000 gallons for firefighting and two overhead tanks with capacity of 1,800 gallons for domestic use.

2.3.5. Electricity and fuel requirement

The proposed project is intended to get required electricity supply form Yangon City Electricity Supply Board (YESB) and distributed by 1,000 kVA of Transformers. Another source of energy 315 kVA generator will also be kept as the emergency generator if normal electricity supply could not provide for the proposed project. They use diesel engine generator and 200 gallons per month.

POLLY HK (MYANMAR) CO., LTD. Environmental Management Plan



1000 KVA transformer

315 KVA generator

Figure 2-4 Electricity facility at Polly HK factory

2.3.6. Wastewater Treatment Plant

Wastewater treatment system consists of wastewater tank, wastewater treatment system and treated water tank. It includes wastewater inlet pipe, over flow pipe and covered by steel wire mesh on water tank. The wastewater generated from the washing machine connected to wastewater tank and pump to the wastewater treatment system. Wastewater treatment system treats the wastewater to effluent levels acceptable by NEQ guidelines. The treated water flows by gravity from the wastewater treatment system to treated water tank. Wastewater treatment process is as shown in Figure 2-5. Design plan and detail process of wastewater treatment presented in **Appendix B**.

Process design parameters and description

Main structure Design parameters

- 1. Collection Pool
 - Effective Volume: V=100m3
 - Structure: Underground Type steel concrete
- 2. A sinking pond
 - Effective Area: S=35m2
 - Structure: Ground-type steel concrete
 - Built-in mud-drain bucket
- 3. Carrier activated sludge tank
 - Effective Volume: V=150m3
 - Structure: Ground-type steel concrete
 - Built-in micro-porous aeration pipe
- 4. Internal sedimentation tank
 - Effective Area: S=24m2
 - Structure: Ground-type steel concrete
- 5. Final sedimentation tank

Environmental Management Plan

- Effective Area: S=24m2
- Structure: steel concrete on the ground
- 6. Sludge tank
 - Effective Volume: V=100m3
 - Structure: Underground Type steel concrete

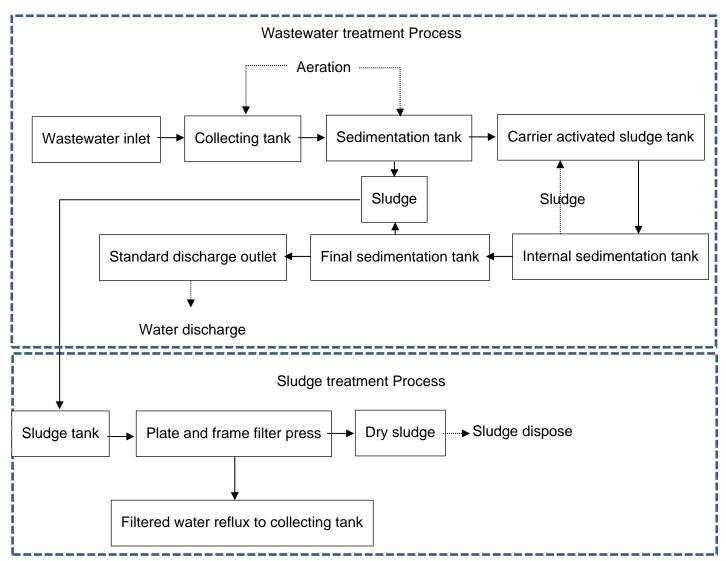


Figure 2-5 Flow diagram of Wastewater treatment process

2.3.7. Water Drainage and flood protection

Kitchen and dishwashing sink was drainage pipe with PVC to drain wastewater from washing area into the concrete channel. Within the factory compound, there was drainage channel with concrete to collect rainwater in the factory area. The factory is located in Hlaing Thar Yar Township. This area has been suffered from flood problems during raining season. The factory has already provided internal rainwater drainage system in connection with local drainage system outside the factory to drain into Hlaing River to prevent flood problems.

Environmental Management Plan



Figure 2-6 Rainwater drainage in factory compound

2.4. LAUNDRY PROCESS

Annual rate of laundry service is 37,000 dozen per years, included Jeans (thickness and thinner) and various types of cloths and wears. The major operations involved in the laundry process are: sorting, washing, drying and finishing Figure 2-7 and detail process is presented in Table 2-3.

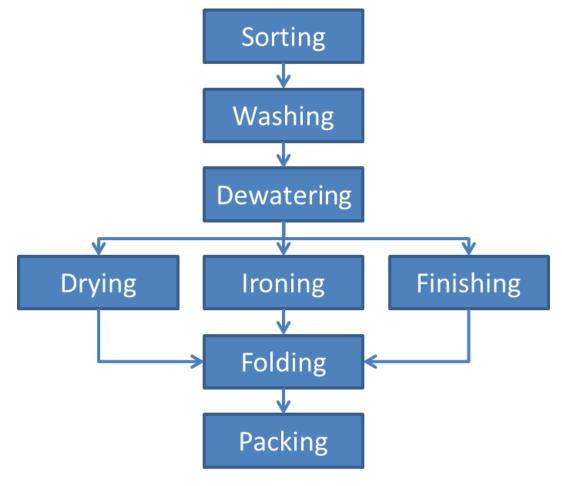


Figure 2-7 Flow Diagram of Polly HK's Laundry process

| Table 2-3 Description of laundry process at Po | |
|--|---|
| Photo | Description |
| <image/> <caption></caption> | The cloths are washed as per requirements using ultrasonic washing machine. The machine systems are with digital controls, stainless steel construction and high-quality piezo elements. Add the detergent to the washer drum or dispenser before loading it. Washing process usually last 15-20 minutes and the machine can wash 100 cloths in one time. The washing machine requires 1000 liters of water for one wash cycle. Outlet Water drains to waste water treatment plant with gravity flow. 1 cylinder (washing machine) = 100 Pcs Water consumption = 1000 liter Softener = 1.0 kg Silicon Oil = 0.5 kg Enzyme = 600 ml |
| <image/> <caption></caption> | Enzyme = 600 ml After the washing process, hydro extractor machine which has a wall of perforated stainless-steel metal was used to extract water from the cloths. Hydro Extractors usually work on centrifugal force creating a high gravitational force to extract water from the product. The internal drum rotates at high speed thus throwing out the water contained in the cloths. The use of hydro extractor significantly reduces the energy required to dry cloths. Outlet Water drains to waste water treatment plant with gravity flow. |

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| Photo | Description |
|----------------|--|
| Prying Machine | The machine was used to drying process by the industrial stream heated dryer. Dryer consist of a rotating drum called a "tumbler" through which heated air is circulated to evaporate the moisture. Dryer is designed to work in ambient temperatures from 20 °C to 60°C. Drying normally lasts between 40 and 45 minutes, but can also exceed 45 minutes, depending on the cloths to be dried |

2.5. GENERATION OF WASTE, EMISSION AND DISTURBANCES

2.5.1. Industrial wastes

Unit processes, which involve water, are washing machine. The factory has 9 washing machines are operated 4 time per day. Only wastewater generated from laundry process. Total amount of wastewater will be generated about 36 m³ per day. This wastewater will be contaminated with color, total suspended solid (TSS), Chemical Oxygen Demand (COD), etc.

Wastewater sedimentation sludge is generated form wastewater treatment plant. The water will be used in this factory 1200 per day, 36000 per month and 432000 per year totally.

2.5.2. Human wastes

The number of staff and workers required in the day shift for the factory is maximum 55 persons during operation. Solid waste generated from maximum number of operators and office staffs with assumption of waste generation rate at 21.45 kg/day calculated based on solid waste generation rate of 0.39 kg/person/day¹.

Domestic wastewater generated by maximum amount of 55 persons with assumption rate at 5.5 m³/day was calculated based on domestic wastewater generated rate of 0.1 m³/person/day². This water will be released in operation hour discharge to septic tank or factory drainage.

¹ The Yangon City solid waste generation rate as of 2012 is 0.39 kg per person per day (Pollution Control and Cleansing Department, Yangon City Development Committee, 2014).

² The domestic wastewater generation was based on typical wastewater generation rate of 0.1 m3 per person per day (Metcalf & Eddy, 2004)

2.5.3. Waste Balance

A mass balance Polly HK factory is illustrated in below Figure 2-8, which presents water and energy inputs and the outputs with respect to residue and sub-products and liquid effluents.

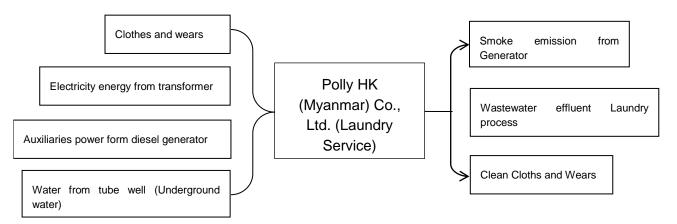


Figure 2-8 Typical mass balance of Polly HK factory

2.6. FACILITIES

2.6.1. Solid waste management Facility

Factory does not dispose any somewhat solid waste on the factory premises or not dump in the surface water like local pond, canal, river etc. The solid waste is stored properly. Solid waste is stored separately in a certain location in proper manner such as metal/hazardous material waste such as fudge electric bulbs, empty chemical container is stored in separate place of waste storage. Plastic waste containers are installed at the end of each operation line. Garbage bins are provided in suitable place nearby canteen, toilet, dining room, etc. Sedimentation sludge of treatment plant will also collect operator every day and handle to YCDC waste collector. All of waste are collected by house keeper every day and inform YCDC to collect and dispose of waste two time per week. Figure 2-9 is presented the onsite waste management of Polly HK factory.



Wastewater treatment plant

Sludge collected container

Figure 2-9 Solid waste management

2.6.2. Wastewater Management Facility

Make sure that all drainage systems are covered and liquid wastes are disposed to drain after septic to avoid soil pollution. Clean the drainage lines periodically to prevent pollution of underlying water source.

Polly HK has constructed on-site wastewater treatment plant (WWTP) on the factory compound. The wastewater treatment plant utilizes combined treatment of (anaerobic) aeration process and sedimentation process. The production wastewater line is connected to WWTP. Management facility at Polly HK factory is provided in Figure 2-10 and Figure 2-11. Wastewater treatment plant can treatment 30 gallons per day.



Sedimentation Tank

Aeration Tank



Microorganisms Tank

Water Outlet with filter system

Figure 2-10 Existing wastewater treatment plant



Figure 2-11 New construction of wastewater treatment plant

2.6.3. Emergency Preparedness Facility

The factory management has taken proper measures to handle any emergency like fire, earthquake, flood etc. Provision and inspection of firefighting equipment and fire hydrant system in all the sections of the factory. A detail evacuation plan (fire exit, 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. Prepare an emergency contact directory consisting contact numbers of nearest fire service, local police station, hospitals, etc. and displace that everybody can see it. Declaring the factory as a "no smoking zone". When plant runs at abnormal situation e.g. if emission level increases than its normal level then immediately inform to HSE officer as well as project manager. Build a safety committee which from firefighting team, rescue team. The committee arranges a meeting every month to discuss about five safety management. Ensure proper training of the employees about the disaster management, fire safety as well as occupational health and safety. Emergency response facilities at Polly HK factory is provided in Figure 2-12 and Figure 2-13.



Figure 2-12 Emergency response facility

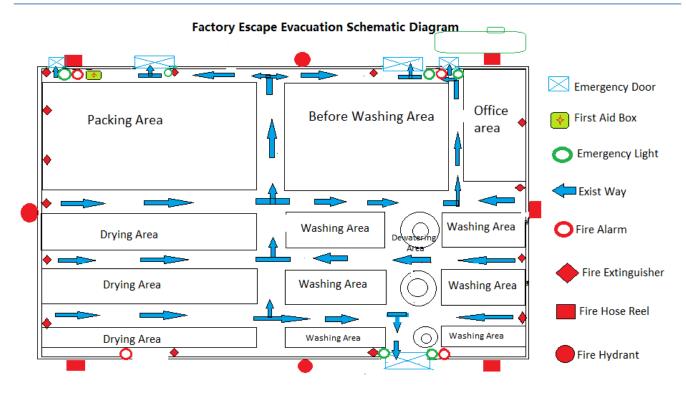


Figure 2-13 Emergency escape schematic diagram at Polly HK factory

3. 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.

3.1. 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.

3.1.1. Laws and Regulations Related to Environmental and Social Considerations

Requirements related to environmental (and social) impact management for development projects are as follow:

| 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. |

3.1.1.1. Constitution 2008

3.1.1.2. 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; |

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| Chapter IV Provisions of Duties and Powers relating to the Environmental Conservation of the Ministry: Section 7 | (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;(b) To prescribe categories of hazardous substances that may affect significantly at present or in the long run on the environment; |
|---|--|
| | (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; |
| | (d) prescribing environmental quality standards including standards on emissions, effluents, solid wastes, production procedures, processes and products for conservation and enhancement of environmental quality; |
| | (j) To prescribe the terms and conditions relating to effluent treatment in industrial estates and other necessary places and buildings and emissions of machines, vehicles and mechanisms; |
| | (m) To lay down and carry out a system of EIA and SIA as to whether or not a project or activity to be undertaken by any Government department, organization or person may cause a significant impact on the environment; |
| | (o) To manage to cause the polluter to compensate for environmental impact, cause to contribute fund by the organizations which obtain benefit from the natural environmental service system, cause to contribute a part of the benefit from the businesses which explore, trade and use the natural resources in environmental conservation works. |
| Chapter VI Environmental Quality | The Ministry may, with the approval of the Union Government and the Committee, stipulate the following environmental quality standards: |
| Standards: Section10 | (a) suitable surface water quality standards in the usage in rivers, streams, canals, springs, marshes, swamps, lakes, reservoirs and other inland water sources of the public; |
| | (b) water quality standards for coastal and estuarine areas; |
| | (c) underground water quality standards; |
| | (d) atmospheric quality standards; |
| | (e) noise and vibration standards; |
| | (f) emissions standards; |
| | (g) effluent standards; |
| | (h) solid wastes standards; |
| | (i) other environmental quality standards stipulated by the Union Government. |
| Section 14 | A person causing a point source of pollution shall treat, emit, discharge and deposit the substances which cause pollution in the environment in accord with 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 | A person or organization operating business in the industrial estate or business in the SEZ or category of business stipulated by the Ministry: |
|------------------------|---|
| | (a) is responsible to carry out by contributing the stipulated cash or kind in the relevant combined scheme for the environmental conservation including the management and treatment of waste; |
| | (b) shall contribute the stipulated users' charge s or management fees for the environmental conservation according to the relevant industrial estate, SEZ and business organization; |
| | (c) shall comply with the directives issued for environmental conservation according to the relevant industrial estate, SEZ or business. |
| Chapter X | The Ministry may, in issuing the prior permission, stipulate terms and conditions |
| Prior Permission | relating to environmental conservation. It may conduct inspection whether or not |
| Section 24 | it is performed in conformity with such terms and conditions or inform the relevant Government departments, Government organizations to carry out inspections. |
| 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. |
| Chapter XIII | Whoever violates any prohibition contained in the rules, notifications, orders, |
| Offences and Penalties | directives and procedures issued under this Law shall, on conviction, be punished |
| Section 32 | with imprisonment for a term not exceeding one year, or with fine, or with both. |

3.1.1.3. 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. |
| Chapter XIII Prohibitions | (a) Any person shall not emit, cause to emit, dispose, cause to dispose, pile and cause to pile, by any means, the pollutants to environment and the hazardous waste or hazardous material stipulated by notification under the Law and any of |
| Section 69 | these rules at any place which may affect the public directly or indirectly.(b) Any person shall not carry out the actions which can be damaged to natural environment which is changing due to ecosystem and such system, except the |

| permission of the relevant Ministry in order to the interest of the public. |
|---|

3.1.1.4. Environmental Impact Assessment Procedure, December 2015

| Screening: Section 23 | a) The project proponent shall submit the Project Proposal to the Ministry for Screening. |
|---|--|
| | b) The Ministry will send the Project Proposal to the Environmental Conservation Department to determine the need for environmental assessment. |
| | c) Following the preliminary Screening and verification that the Project Proposal contains all required documents and related materials, subject to Articles 8, 9, 10, 11, 26 and 27 the Department shall make a determination in accordance with Annex 1 _ Categorization of Economic Activities for Assessment Purposes', taking into account Article 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: i) An EIA Type Project, or ii) An IEE Type Project, or |
| | iii) A Non IEE or EIA Type, and therefore not required to |
| CHAPTER VIII. Responsibility for all Adverse Impacts Section 102 | The Project Proponent shall bear full legal and financial responsibility for: a) all of the Project Proponent's actions and omissions and those of its contractors, subcontractors, officers, employees, agents, representatives, and consultants employed, hired, or authorized by the Project acting for or on behalf of the Project, in carrying out work on the Project; and |
| | b) PAPs until they have achieved socio-economic stability at a level not lower than that in effect prior to the commencement of the Project, and shall support programs for livelihood restoration and resettlement in consultation with the PAPs, related government agencies, and organizations and other concerned persons for all Adverse Impacts. |
| Section 103 | The Project Proponent shall fully implement the EMP, all Project commitments, and conditions, and is liable to ensure that all contractors and subcontractors of the Project comply fully with all applicable Laws, the Rules, this Procedure, the EMP Project commitments and conditions when providing services to the Project. |
| Section 104 | The Project Proponent shall be responsible for, and shall fully and effectively implement, all requirements set forth in the ECC, applicable Laws, the Rules, this Procedure and standards. |
| Section 105 | The Project Proponent shall timely notify and identify in writing to the Ministry, providing detailed information as to the proposed Project's potential Adverse Impacts. |
| CHAPTER IX. Monitoring | The Project Proponent shall, during all phases of the Project (pre-construction, construction, operation, decommissioning, closure and post-closure), engage in |
| Section 106 | continuous, proactive and comprehensive self-monitoring of the Project and activities related thereto, all Adverse Impacts, and compliance with applicable laws, the Rules, this Procedure, standards, the ECC, and the EMP. |
| Section 107 | The Project Proponent shall notify and identify in writing to the Ministry any breaches of its obligations or other performance failures or violations of the ECC |
| | |

| | and the EMP as soon as reasonably possible and in any event, in respect of any breach which would have a serious impact or where the urgent attention of the Ministry is or maybe required, within not later than twenty-four (24) hours, and in all other cases within seven (7) days of the Project Proponent becoming aware of such incident. |
|-------------|--|
| Section 108 | The Project Proponent shall submit monitoring reports to the Ministry not less frequently than every six (6) months, as provided in a schedule in the EMP, or periodically as prescribed by the Ministry. |
| Section 109 | The monitoring reports shall include: a) documentation of compliance with all conditions; |
| | b) progress made to date on implementation of the EMP against the submitted implementation schedule; |
| | c) difficulties encountered in implementing the EMP and recommendations for remedying those difficulties and steps proposed to prevent or avoid similar future difficulties; |
| | d) number and type of non-compliance with the EMP and proposed remedial measures and timelines for completion of remediation; |
| | e) accidents or incidents relating to the occupational and community health and safety, and the environment; and |
| | f) monitoring data of environmental parameters and conditions as committed in the EMP or otherwise required. |
| Section 110 | Within ten (10) days of completing a monitoring report as contemplated in Article 108and Article 109 in accordance with the EMP schedule, the Project Proponent shall make such report (except as may relate to National Security concerns) publicly available on the Project's website, at public meeting places (e.g. libraries, community |
| | halls) and at the Project offices. Any organization or person may request a digital copy of a monitoring report and the Project shall, within ten (10) days of receiving such request, submit a digital copy via email or as may otherwise be agreed upon with the requestor. |
| Section 113 | For purposes of monitoring and inspection, the Project Proponent: |
| | a) shall grant to the Ministry and/or its representatives, at any time during normal working hours, access to the Project's offices and to the Project site and any other location at which the Project activities or activities related to the Project are performed; and |
| | b) from time to time as and when the Ministry may reasonably require, shall grant the Ministry access to the Project's offices and to the Project site and any other location at which the Project activities or activities related to the Project are performed. |
| Section 115 | In the event of an emergency, or where, in the opinion of the Ministry, there is or may exist a violation or risk of violation of the compliance by the Project with all applicable environmental and social requirements, the Project shall grant full and immediate access to the Ministry at any time as may be required by the Ministry. |

| Section 117 | The Project Proponent shall further ensure that the Ministry's rights of access here under shall extend to access by the Ministry to the Project's contractors and subcontractors. |
|---------------|--|
| CHAPTER VIII. | The monitoring reports shall include: |
| Monitoring | a) documentation of compliance with all Conditions; |
| Section 102 | b) progress made to date on implementation of the EMP against the submitted implementation schedule; |
| | c)difficulties encountered in implementing the EMP and recommendations for remedying those difficulties and steps proposed to prevent or avoid similar future difficulties; |
| | d)number and type of non-compliance with the EMP and proposed remedial measures and timelines for completion of remediation; |
| | e) accidents or incidents relating to the occupational and community health and safety, and the environment; and |
| | f) monitoring data of environmental parameters and conditions as committed in the EMP or otherwise required |

3.1.1.5. 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. |
|--|---|
| Scope of Application | Provisions of the general and applicable industry-specific Guidelines shall be reflected in project environmental management plan (EMP) and environmental compliance certificate (ECC) and together constitute a project's commitment to take necessary measures to avoid, minimize and control adverse impacts to human health and safety, and the environment through reducing the total amount of emissions generation; to adopting process modifications, including waste minimization to lower the load of pollutants requiring treatment; and as necessary, to apply treatment techniques to further reduce the load of contaminants prior to release or discharge. |
| CHAPTER II Implementation Procedures | 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. These Guidelines will henceforth be applied by the Ministry in satisfying this requirement until otherwise modified or succeeded by other guidelines or standards |
| Section 10 | 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 3 emissions. In this regard, the Ministry will require that project sad here to general and applicable industry guidelines asset out in Annex 1. |
| Section 11 | 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, as distinguished from new projects. At the Ministry's discretion less stringent levels or measures than provided for in these Guidelines may be specified as appropriate, and a timeframe agreed for a project to fully comply with these Guidelines. |

| Section 12 | As specified in the EIA Procedure, projects shall engage in continuous, proactive and comprehensive self monitoring of the project and comply with applicable guidelines and standards. For purposes of these Guidelines, projects shall be responsible for the monitoring of their compliance with general and applicable industry-specific Guidelines as specified in the project EMP and ECC. |
|------------|--|
| Section 13 | Air emissions, noise, odor, and liquid /effluent discharges will be sampled and measured at points of compliance as specified in the project EMP and ECC. |

3.1.1.6. National Environmental Policy of Myanmar (2019)

| National Environmental Policy Vision & mission | <u>Vision</u> A clean environment, with healthy and functioning ecosystem, that ensures includes development and wellbeing for all people in Myanmar. Mission |
|---|---|
| | To establish national environmental policy principle for guiding environmental protection and sustainable development and for mainstreaming environmental consideration into all polices, laws, regulation, plans, strategic, programmes and projects in Myanmar. |

3.1.1.7. Myanmar Investment Law, 2016

| Chapter II | The objectives of this Law are as follows: |
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| Objective | |
| Section 3 | (a) to develop responsible investment businesses which do not cause harm to the natural environment and the social environment for the interest of the Union and its citizens; |
| | (b) to protect the investors and their investment businesses in accordance with the law; |
| | (c) to create job opportunities for the people; |
| | (d) to develop human resources; |
| | (e) to develop high functioning production, service, and trading sectors. |
| | (f) to develop technology, agriculture, livestock and industrial sectors; |
| | (g) to develop various professional fields including infrastructure around the Union; |
| | (h) to enable the citizens to be able to work alongside with the |
| | international community; |
| | (i) to develop businesses and investment businesses that meet |
| | international standards. |
| Chapter XIII | The investor: |
| Employment of Staff and | (a) may appoint of any citizen who is a qualified person as senior |
| Workers Section 51 | manager, technical and operational expert, and advisor in his investment within the Union in accordance with the Laws; |
| | (b) shall appoint them to replace, after providing for capacity building programs in order to be able to appoint citizens to different level positions of management, technical and operational experts, and advisors; |
| | (c) shall appoint only citizens for works which does not require skill; |
| | (d) shall appoint skilled citizen and foreign workers, technicians, and staff by signing an employment contract between employer and employee in accordance with the labor laws and rules; |
| | (e) shall ensure to obtain the entitlements and rights in the labor laws and rules, including minimum wages and salary, leave, holiday, overtime fee, damages, compensation of the workman, social welfare, and other |

| | insurance relating to workers in stipulating the rights and duties of employers and employees and occupational terms and conditions in the employment contract; (f) shall settle disputes arising among employers, among workers, between employers and workers, and technicians or staff in the investment in accordance with the applicable laws. |
|---|---|
| Chapter XVI | The Investor: |
| Responsibilities of Investors Section 65 | (f) shall not make any significant alteration of topography or elevation of the land on which he is entitled to lease or to use, without the approval of the Commission; |
| | (g) shall abide by applicable laws, rules, procedures and best standards practiced internationally for this investment so as not to cause damage, pollution, and loss to the natural and social environment and not to cause damage to cultural heritage; |
| | (i) shall close and discontinue the investment only after payment of compensation to employees in accordance with applicable laws for any breach of employment contracts, closure of investment, sale and transfer of investment, discontinuation of investment, or reduction of workforce; |
| | (j) shall pay wages and salaries to employees in accordance with applicable laws, rules, procedures, directives and so forth during the period of suspension of investment for a credible reason; |
| | (k) shall pay compensation and indemnification in accordance with applicable laws to the relevant employee or his successor for injury, disability, disease and death due to the work; |
| | (I) shall supervise foreign experts, supervisors and their families, who employ in their investment, to abide by the applicable laws, rules, orders and directives, and the culture and traditions of Myanmar; |
| Chapter XVII Insurance Section 73 | The investor shall ensure the types of insurance stipulated in the provision of the rules at any insurance enterprise which is entitled to carry out insurance businesses within the Union. |

3.1.1.8. 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 |
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| 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 (1993) | Insurance | Law | Section 15 - If the project proponent uses the owned vehicles the project owner has to ensure the insurance for the injured person. |
| | | | 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. |

3.1.1.9. Myanmar Insurance Law (1993)

| Chapter II | The Myanmar Insurance is established with the following aims: - |
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| Establishment and Aim Section 4 | social and economic losses which the people may encounter, due to common perils; |
| Section 4 | (b) to promote the habit of savings individually by effecting life assurance, thus |

| | contributing to the accumulation of resource, of the State;(c) to win the trust and confidence of the people in the insurance system by providing effective insurance safeguards which may become necessary in view of the social and economic developments. |
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| Chapter VI Effecting Insurance and Granting of Benefits Section 15 | Owners of motor vehicles shall affect compulsory Third Party Liability Insurance with the Myanmar Insurance. |
| Section 16 | An entrepreneur or an organization operating an enterprise which may cause loss to State-owned property or which may cause damage to the life and property of the public or which may cause pollution to the environment shall affect compulsory General Liability Insurance with the Myanmar Insurance. |

3.1.1.10.The Commercial Tax Law (1990) Amended 2014

| Chapter 5 Registration and Intimation of Commencement of Enterprise Article 11 (b) | Any Person who commences operation of a goods production enterprise or 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. |
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| Chapter 6 | Any person who has taxable proceed of sale or receipt from service |
| Monthly Payment of Tax and Sending of Three-Monthly Return | 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 |
| Article 12 (a) | three-month. |
| Article 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. |
| Article 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. |
| Article 12 (d) | The tax paid under sub-section (a), (b) or (c) shall be set-off from the tax due in the assessment. |
| Article 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. |

3.1.1.11. The Amended Law for Factories Act, 1951 (Amended in 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. |

3.1.1.12. The Private Industrial Enterprise Law, 1990

| Chapter II Basic Principles | Private Industrial Enterprises shall be conducted in accordance with the following basic principles: - |
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| Section 3 | (a) to enhance the higher proportion of the manufacturing value added in the gross national product and value of services, and to increase the production of the respective economic enterprises which are related to the industrial enterprise; |
| | (b) to acquire modern technical know-how for raising the |
| | efficiency of industrial enterprises and to establish the sale of finished goods produced by the industrial enterprise not only in the local market, but also in the foreign market; |
| | (d) to cause narrowing down of the gap between rural development and urban development by causing the development and improvement of industrial enterprises; |
| | (e) to cause opening up of more employment opportunities; |
| | (f) to cause avoidance of or reduction of the use of technical know-how which cause environmental pollution; |
| | (g) to cause the use of energy in the most economical manner. |
| Chapter III | (a) Any person desirous of conducting any private industrial enterprise; |
| Registration of Private Industrial Enterprises | (b) Any person conducting any private industrial enterprise on the day this Law is enacted; by using any type of power which is three horsepower and above or |
| Section 4 | manpower of ten wage-earning workers and above shall register under this Law. |
| Chapter VI | The duties of the entrepreneur are as follows: - |
| Duties and Rights of the | (b) shall abide by the terms and conditions of the registration certificate; |
| Entrepreneur Section 13 | (I) shall shift the place of enterprise, change the nature of enterprise, amalgamate enterprises and split up enterprises only with the approval of the Directorate; |
| | (g) shall abide by the orders and directives issued from time to time by the Ministry and the Directorate; |

3.1.1.13. The Prevention of Hazard from Chemical and Related Substances Law, 2013

| Chapter II | This law was enacted with the objectives of: |
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| Aims Section 3 | 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. |
| | 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. |
| Section 15 | A person who has obtained a licence, before starting the respective chemical and related substances business: - |
| | (a) shall be inspected for the safety and the power of resistance of the machinery and equipment by the respective Supervisory Board and Board of Inspection; |
| | (b) shall be attended the person who serve in the work to the respective foreign trainings or the trainings and the expert trainings on prevention of hazard from the |

| | chemical and related substances opened by the government department and the |
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| | government organizations. |
| Section 16 | A person who has obtained a licence: - |
| | (a) shall abide the licence regulations; |
| | (b) shall perform to abide strictly the instructions for being safety in using the chemical and related substances by himself and also the persons who serve the work; |
| | (c) shall keep the required safety equipment enough in the chemical and related substances businesses, furthermore shall grant the personal protection equipment and dresses free of charge to the working persons; |
| | (d) shall make the course of training and study and instruction if necessary to the working persons for using the occupational safety equipment, the personal protection equipment and the dresses systematically in the chemical and related substances business; |
| | (e) shall be inspected by the respective Supervisory Board and Boards of Inspection in respect of whether or not the hazard may impact on the Human Being and Animals' health and the environment; |
| | (f) shall make medical checkup the working persons who will work in the chemical and related substances business and shall permit to serve in that work after obtaining the recommendation that his health is suitable for that work. This medical checkup records shall be kept systematically; |
| | (g) shall send the copy of informative letter of the permission to the respective Department of Township Administration, if the hazardous chemical or related substances are permitted to store; |
| | (h) shall acquire in advance the guidance and agreement of the respective Department of Fire Brigade, if the business that is worried to fire hazard is operated by using the fire hazard substances or the explosive substances; |
| | (i) shall transport only the permitted amount of the chemical and related substances in accordance with the prescriptive stipulations, if they are transported in local; |
| | (j) shall take the permission from the Central Supervisory Board if the chemical and related substance is altered and transferred from one place to any other place which contained in the license; |
| | (k) shall abide and perform in accordance with the related environmental laws not to impact and damage to the environment in operating the chemical and related substances business. |
| Section 17 | A person who has obtained a licence, shall put the insurance in accordance with the prescriptive stipulations to be able to pay the compensation, if the impact and damage is occurred on the Human Being and Animals or the environment in respect of the chemical and related substances businesses. |
| Section 22 | A person who has obtained the registration certificate shall abide the regulations consisted in the registration certificate furthermore shall also abide the order and instructions issued occasionally by the Central Supervisory Board. |
| Chapter IX | A person who has obtained the licence to be complied the following matters to |
| Hazard Control and Decrease | control and decrease the hazard of the chemical and related substances: - (a) classifying the hazard level to protect in advance the hazard according to the |
| Section 27 | properties of the chemical and related substances; |
| | (b) expressing the Material Safety Data Sheet and Pictogram; |
| | (c) providing the safety equipment, the personal protection equipment to protect and decrease the accident and attending to the training to be used systematically; |
| | (d) performing in accordance with the stipulations in respect of transporting, possessing, storing, using, discharging the chemical and related substances; |
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3.1.1.14. Petroleum and Petroleum Product Law (2017)

| Chapter II | The Objectives of this law are as follows: |
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| Objective Section 3 | a.to carry out the petroleum and petroleum product businesses activities systematically in accordance with the provisions of the law, stipulated standards, procedures and conditions; |
| | b.to enable the petroleum and petroleum product business activities to carry out safely without environmental impact; |
| | c.to establish free and fair competition in carrying out petroleum and petroleum product business activities; |
| | d.to secure energy requirement and energy security of the Union; |
| | e.to obtain tax revenue of the Union |
| Chapter IV Application for Licence, | The Ministry of Transport and Communications shall carry out the following functions relating to any petroleum and petroleum product; |
| Issue of Permit, Determining Conditions to be abided by, | a. issuing licence to vehicles, vessels and barges that carry any petroleum and petroleum product; |
| and Supervision Section 9 | b. determining period, form, conditions, means of applying for licence, permitting authority and fees to be assessed, for licences under subsection (a); |
| | c. determining and supervision on ports for vessels and barges that carry out import, export, and transport by water in accord with procedures; |
| | d. taking action, as necessary, in accordance with the existing laws if it occurs spill or accident in carrying out import, export, transport, and sale and distribution of petroleum and petroleum product by water; |
| | e. determining procedures and conditions to be abided by in carrying out transport business except transport by pipeline. |
| Section 10 | The Ministry of Natural Resources and Environmental Conservation shall carry out the following functions relating to any petroleum and petroleum product; |
| | a. issuing licence for the right to store for the storage tanks and warehouses; |
| | b. issuing transport permit for the vehicles, vessels and barges that shall carry any petroleum and petroleum product; |
| | c. determining the period, form and terms and conditions, manners of applying licence, permitting authority and fees to be assessed, for licence under subsection (a) and permit under subsection (b); |
| | d. if it occurs environmental impacts in carrying out petroleum and petroleum product business activities, taking action, as necessary, in accordance with the existing laws of on-site inspection; |
| | e. determining, in coordination with ministries concerned, procedures and conditions relating to standard and quality of storage tanks and warehouse, and tanks of vehicles, vessels and barges that carry any petroleum and petroleum product. |
| Section 11 | On all receptacles containing any dangerous petroleum and petroleum product, the warning sign of danger by stamping, embossing, painting, printing or any other means shall be expressed. If it is impossible to express as such, similar warning signs of the nature of danger of gasoline, spirit or petroleum shall be expressed in writing at the ostensible place in salient words or signs near the receptacle. |
| Chapter VI | Any licensee: |
| Prohibition Section 31 | a. shall not violate any prohibition contained in the rules, regulations, bye-laws, notifications, orders, directives, procedures and conditions or fail the duty to implement; |
| | b. shall not use a receptacle and transport vehicles and pipelines that contains any dangerous petroleum and petroleum product without saliently mentioning in |

| writing of warning signs; |
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| c. shall not import, transport, store and sell and distribute the dangerous petroleum and petroleum product, or non-dangerous petroleum and petroleum product except by the means stipulated in this law; |
| d. shall not have the right to carry out without undertaking the environmental impacts, in operating petroleum and petroleum product business activities; |
| e. shall not distribute and sell petroleum and petroleum products which do not fulfill or are not in conformity with the standard, quality and measurement. |

3.1.1.15. Industrial Use Explosive Substances Law, 2018

| Objective: | The objectives of Industrial Use Explosive Substances Law (2018) are as follow: (a) to make, import, transport, store and use of exploiting materials that explode in the workplace must be carefully handle and use. (b) to take care of safety in the workplace which use yarns and accessories (c) to properly supervise the use of explosive materials in the workplace. |
|---|---|
| Chapter 7 Prohibitions Article 18 | Any license holder shall not be refused to perform the inspection of the inspector or the inspector general. |
| Article 19 (b) | Under Section 8, any explosive materials shall not be destroyed materials without the approval of the Defense Ministry's Executive Board. |
| Article 19 (c) | Rules and Regulations, orders, disciplines, instructions issued under this law must not fail to act. |

3.1.1.16. The Law on Standardization (2014)

| Chapter (II) | The objectives of this Law are as follows: |
|---|--|
| Chapter (II) | The objectives of this Law are as follows: |
| Objectives | (a)to enable to determine Myanmar Standards; |
| Section 3 | (b)to enable to support export promotion by enhancing quality of production organizations and their products, production processes and services; |
| | (c)to enable to protect the consumers and users by guaranteeing imports and products are not lower than prescribed standard, and safe from health hazards; |
| | (d)to enable to support protection of environment related to products, production processes and services from impact, and conservation of natural resources; |
| | (e)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; |
| | (f)to support on establishing the ASEAN Free Trade Area and to enable to reduce technical barriers to trade. |
| | (g)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 |
| Chapter (VI) Application for and Issue of Certification | A person desirous of obtaining certificate of certification shall apply to the department and organization which has obtained the accreditation. |

| Section 17 | |
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| Chapter (VII) Taking Action by Committee Section 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 orders: (a)warning; (b)suspending the certificate of certification for limited period; (c)cancelling the certificate of certification |
| Chapter (IX) Offences and Penalties Section 26 | If any person who obtained certificate of certification uses standardization mark on the product which is not in conformity with the relevant standard or relating to service shall be punished with imprisonment for a term not exceeding one year or with fine not more than one million Kyats or with both. |

3.1.1.17.The Labor Organization Law (2011)

| Chapter V Rights and Responsibilities of the Labour Organization Section 17 | The labour organizations shall have the right to carry out freely in drawing up their constitution and rules, in electing their representatives, in organizing their administration and activities or in formulating their programmes. The Labour Organizations have the right to negotiate and settle with the employer if the workers are unable to obtain and enjoy the rights of the workers contained in the labour laws and to submit demands to the employer and claim in accord with the relevant law if the agreement cannot be reached. |
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| Section 18 | The labour organization has the right to demand the relevant employer to re- appoint a worker if such worker is dismissed by the employer and if there is cause to believe that the reasons of such dismissal were based on labour organization membership or activities, or were not in conformity with the labour laws. |
| Section 19 | The labour organizations have the right to send representatives to the Conciliation Body in settling a dispute between the employer and the worker. Similarly, they have the right to send representatives to the Conciliation Tribunals formed with the representatives from the various levels of labour organizations. |
| Section 20 | In discussing with the Government, the employer and the complaining workers in respect of worker's rights or interests contained in the labour laws, the representatives of the labour organization also have the right to participate and discuss. |
| Section 21 | The labour organizations have the right to participate in solving the collective bargains of the workers in accord with the labour laws. |
| Section 22 | The labour organizations shall carry out peacefully in carrying out holding of meetings, going on strike and carrying out other collective activities in accord with their procedures, regulations, by-laws and any directives prescribed by the relevant Labour Federation. |

3.1.1.18. 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. | |
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| Chapter II | The objectives of this Law are as follows: |
| Objectives | (a) to support the development of the State's economy through the development |
| Section 3 | of production by causing to enjoy more security in social life and health care by the workers who are major productive force of the State by the collective guaranty of the employer, worker and the State; |
| | (b) to enjoy more security in social life and medical care by the public by effecting their insurance voluntarily; |

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| Fund and Benefits | sub-section (a) of section 15; |
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| Section 45 | (b) workers specified as being applied to provisions of compulsory registration for employment injury benefit insurance system by notification of the Ministry of Labour, in co-ordination with the Social Security Board with the approval of the Union Government. |
| Section 48 | (a) The employer shall affect insurance by registering for employment injury benefit insurance system contained |
| | in section 45 at the relevant township social security office and pay contribution to employment injury benefit fund in accord with stipulations in order that workers applied to provisions of compulsory registration may obtain the employment injury benefits; |
| | (b) The employers may affect insurance by registering voluntarily for insurance of the workers who are not applied to provisions of compulsory registration for employment injury benefit insurance system, by paying stipulated contribution to employment injury benefit insurance fund; |
| | (c) When registering to effect insurance for employment injury benefit in accord with sub-sections (a) and (b), the worker shall submit medical certificate. |
| Section 49 | Non-application to the Workmen's Compensation Act |
| | (a) The employers and insured persons of establishments where the employer had registered compulsorily in |
| | accordance with sub-section (a) of section 48 or where the employer had registered voluntarily in accord with sub-section (b) of section 48 who have paid contribution to employment injury benefit fund shall not apply to the provisions contained in the Workmen's Compensation Act as regards the employment injury benefit; |
| | (b) The insured persons who has affected insurance for employment injury benefit in accord with sub-sections |
| | (a) and (b) of section 48 shall be entitled only to the employment injury insurance benefits contained in this Law. |
| 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; |
| Section 75 | The employer of establishments applied by this Law: |
| | (a) shall prepare and keep the following records and lists correctly and submit to the relevant township social security office in accord with the stipulations: |
| | i) records and lists of workers' daily attendance; |
| | ii) records of appointing new worker, employing worker by changing of work, suspension from work, dismissal from work and resignation from work; |
| | iii) records of promotion and paying remuneration; |
| | iv) records and lists of employers, managers, and administrators; and records of changes of them; |
| | (b) shall inform the relevant township social security office if the following matters arise: |
| | i) change in number of workers and address of establishment; |
| | ii) change of employer, change of business, suspension from work, and termination of work; |
| | iii) employment injury, employment death, and occupational diseases; |
| | (c) shall produce work records and lists on requirement of inspection team or official assigned duty under this Law by the Social Security Head Office and various Regional Social Security Offices. |

| Chapter II | Th e objectives of this Law are as follows: |
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| Objectives | (a) to obtain equal citizen's rights for all ethnic groups; |
| | (b) to live eternally together with amicable relations among ethnic groups on the basic of genuine Union Spirit; |
| | (c) to preserve and develop language, literature, fine art, culture, custom, national character, and historical heritage of ethnic groups; |
| | (d) to promote solidarity, mutual rarity and respect, and mutual assistance among ethnic groups; |
| | (e) to promote socioeconomic development including education, health, economy, transport and communication, so forth, of less-developed ethnic groups; |
| | (f) to fully obtain the rights prescribed in the Constitution by ethnic groups. |
| Chapter IV | 5. The matters of projects shall completely be informed, coordinated and |
| Formation of the Ministry and Appointment of the Union Minister | performed with the relevant local ethnic groups in the case of development works, major projects, businesses and extraction of natural resources will be implemented within the area of ethnic groups. |

3.1.1.20.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 f violates any act or any emission to omission to damage the interest of labour by reducing of product without efficient cause. |

| 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. |
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3.1.1.21. The Employment and Skills Development Law (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. | |
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| Chapter (2) Employment and Employment Seeking Section 3 | The Ministry shall manage the facilities and measures to help for selection of employment, obtaining employment for employment seeker suitable according to the age and strength; tenure in employment and skill development, and to help employers for obtaining workers suitable for the employment |
| Chapter (3) Making Contract of Employment Section 5 | (a)(1) After the employer has employed a worker for any job, he shall within 30 days of so doing, sign a Contract of Employment with the worker. This clause however shall not apply to permanent workers of government departments and organizations. |
| | (2) If prior to employment, the worker is required to attend any per-employment training for a period or appointed on probation for a period, sub-section (1) shall not apply for that period. |
| | (c) The workplace rules in the Employment Contract shall conform to the rules made under existing laws and the rights of the workers in the Contract shall not be less than those in existing laws. |
| Chapter (5) Implementing Training Programs and Skills Development of Workers Section 14 | Employer shall conduct occupational training to enhance the skills of workers who are to be employed as well as workers who are presently employed in accordance with the requirements of the enterprise and the policy of the Skills Development Agency. |
| Chapter (8) Establishing and Utilizing Workers' Skills Development Fund Section 30 | (a) The employers of Industrial and Service Enterprises shall pay contribution to the fund every month without fail amounting to not less than below 0.5% of the payroll of his workers up to the level of supervisors of the workers.(b) The employer shall not deduct the contribution paid under sub-section (a) to the fund from the wages of the workers. |

3.1.1.22. 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.

| Chapter IV Determining the Categories of Work Section 6 | The National Committee shall determine, by notification, commercial, production and service, agricultural and livestock breeding business which shall be applied by the provisions relating to minimum wage contained in this Law, in the whole country or relevant Union, Region or State. Moreover, it may amend the said businesses in accord with the changing situation from time to time. |
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| Chapter VII The Duties of the Employer Section 12 | The employer: (a) shall not pay wage to the worker less than the minimum wage stipulated under this Law; (b) may pay more than the minimum wage stipulated under this Law; (c) shall not have the right to deduct any other wage except the wage for which it has the right to deduct as stipulated in the notification issued under this Law; |

| (d) shall pay the minimum wage to the workers working in the commercial, production and service business in cash. Moreover, if the specific benefits, interests or opportunities are to be paid, it may be paid in cash or partly in cash and partly in property, with prevailing regional price, jointly according to the desire of the worker; (e) in paying minimum wage to the workers working in the agricultural and livestock business, some cash and some property at prevailing regional price may be paid jointly according to local custom or desire of the majority of workers or collective agreement. Such payment shall be for any personal use and benefit of the worker and his family and the value shall also be considerable and fair. Section 13 The employer: (a) shall inform the workers the rates of minimum wage relating to the business among the rates of minimum wage stipulated under this Law and advertise it at the workplace to enable to be seen by the relevant workers; (b) shall prepare and maintain the lists, schedules, documents and wages of the workers correctly; (c) shall inform the inspection of the inspection officer. Moreover, he shall produce the said lists and documents upon asking to submit; (e) shall allow the entry and inspection of the inspection officer to the commercial, production and service businessa, segricultural and livestock breeding workplaces and give nocessary assistances; (f) if the workers cannot work due to sickness, shall give them holiday for medical treatment in accord with the stipulations; (g) in the funeral matter of the member of the family of worker or not here lists, schedules and documents are reported to correctly, and whether or not such lists, schedules and documenta are reported to the Department in accord with the stipulations; (d) has the right to enter and inspect the relev | | |
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| required by the employer to produce the document, shall show the civil service | | relating to such outside workers, their names and addresses and the right to ask |
| | | required by the employer to produce the document, shall show the civil service |
| (e) Report to the Department in accord with the stipulations relating to the finding under sub-sections (a), (b) and (c), and documents and papers called for. | | |

3.1.1.23. Payment of Wages Law (2016)

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.

| payady, and anows legal at | tion against delayed payment or un-agreeable deduction. |
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| Chapter II | The employer: |
| Methods and Time of Payment of Wages Section 3 | (a) shall pay wages to the workers employing in his business in local currency or foreign currencies stipulated by the Central Bank of Myanmar. Such payment may be paid in cash or cheque or deposit into the bank account of the worker with the agreement between the employer and the worker. (b) In paying such wages: |
| | (i) if it is necessary to pay particular benefit, profits and opportunities for workers working in commerce, production and service businesses, it may be paid in cash or some in cash and some in things set up by local price on own volition of workers in accordance with the stipulations. |
| | (ii) For workers employing in agriculture and livestock breeding business, it may be paid some wage in cash and something set up by local price according to custom, or on the volition of majority of worker or by collective agreement. In paying so, it shall be for personal use and the interest of his family, and shall be appropriate and equitable. |
| | (c) If any worker is conscripted under the Public Military Service Law, the (60) days of wages shall be paid as a special right |
| Section 4 | The employer: |
| | (a) shall pay wages at the end of the work or at the time agreed to pay to the worker for hourly, daily, weekly or other part time work, or temporary or piece work; |
| | (b) shall not exceed one month than the period agreed with the worker under sub- section (a) to pay wages; |
| | (c) shall pay the wages for the permanent work monthly. In making such payment: |
| | (i) if workers are not more than 100, wages shall be paid at the end of the period for payment of wage; |
| | (ii) If workers are more than 100, it shall be paid no later than five days after the end of the period for payment of wage; |
| | (d) shall pay the due wages within two working days from the date of termination, if a worker is terminated; |
| | (e) shall pay the wages at the end of the period for payment of wages, if a worker resigns on his own volition by sending prior written notice of resignation; |
| | (f) shall pay the due wages to a legal heir within two working days after the decease, if a worker is deceased; |
| | (g) shall pay all wages on a working day |
| Section 5 | If an employer encounters difficulty to make payment under sub-section(c) of the Section 4 due to any unexpected condition, including natural disaster, the employer shall submit that which date has been altered for the payment of wages with the consent of the workers to the Department on reasonable ground. |

| Chapter III | The employer: |
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| Deduction from Wages | (a) may deduct from wages, except leaves which are entitled wages under the |
| Section 13 | relevant law and public holidays, for the absent period from work; |
| | (b) may detect expenses which are allowance accommodation and ferry service are arranged by the employer, meal allowance, electricity charges, water service charges and income taxes liable to be paid by worker and cash paid in excess under a mistake, which are not included in the expression of wages under this Law; |
| | (c) may deduct advance payment or reimburse or savings for the worker or any contribution under any law demanded by a worker from wages; |
| | (d) may deduct from the wages of the worker under a decision of a Court or Arbitration Council or Arbitration Body. |
| Chapter IV | The worker has the right to enjoy overtime wages stipulated by the law if he |
| Overtime Wages | works over time. |
| Section 14 | |

3.1.1.24.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.

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| Chapter VII | The employer: |
| The Duties of the Employee Section 12 | (a)shall not pay wage to the worker less than the minimum wage stipulated under this Law |
| | (b)may pay more than the minimum wage stipulated under this Law; |
| | (c) shall not have the right to deduct any other wage except the wage for which it has the right to deduct as stipulated in the notification issued under this Law; |
| | (d) shall pay the minimum wage to the workers working in the commercial, production and service business in cash. Moreover, if the specific, benefits, interests or opportunities are to be paid, it may be paid in cash and partly in property, with prevailing regional price, jointly according to the desire of the worker; |
| | (e) in paying minimum wage to the workers working in the agricultural and live stock business, some cash and some property at prevailing regional price may be paid jointly according to local customer desire of the majority of workers or collective agreement. Such payment shall be for any personal use and benefit to the worker and his family and the value shall also be considerable and fair. |
| Section 13 | The employer: |
| | (a) shall inform the workers the rates of minimum wage relating to the business among the rates of minimum wage stipulated under this Law and advertise it at the workplace to enable to be seen by the relevant workers; |
| | (b) shall prepare and maintain the lists, schedules, documents and wages of the workers correctly; |

| | (c) shall report the lists, schedules and documents prepared and maintained under subsection (b) to the relevant department in accord with the stipulations; |
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| | (d) shall accept the inspection when summoned by the inspection officer. Moreover, he shall produce the said lists and documents upon asking to submit; |
| | (e) shall allow the entry and inspection of the inspection officer to the commercial, production and service businesses, agricultural and livestock breeding workplaces and give necessary assistances; |
| | (f) if the workers cannot work due to sickness, shall give them holiday for medical treatment in accord with the stipulations; |
| | (g) if the funeral matter of the member of the family of worker or his parent occurs, shall give holiday without deducting from the minimum wage, in accord with the stipulations. |
| Chapter VIII | A worker working in any establishment relating to this Law: |
| The Rights of the Workers Relating to the Minimum | (a) has the right to obtain the minimum wage stipulated under this Law or, if the employer pay more than the said wage; |
| Wage Section 14 | (b) has the right to continue to enjoy the pay paid more, if the pay received is more than the minimum wage stipulated under this Law, before the coming into force of this Law; |
| | (c) has the right to enjoy the minimum wage stipulated under this Law, if the minimum |
| | wage contained in the employment agreement is less than the minimum wage stipulated under this Law; |
| | (d) has the right to enjoy not less than the minimum wage stipulated for each work where he is working when working in two or more works; |
| | (e) has the right to enjoy the stipulated minimum wage for the time worked in the part-time job, hourly job; |
| | (f) has the right to enjoy a holiday per week with pay in the salary-paid work. If he is employed in such holiday, he shall have the right to obtain over-time fee in accord with the existing law; |
| | (g) if working less than the working hours per day stipulated in a daily-waged job is not due to reduced working according to the desire of the worker, or if work has to be paused due to the failure of employer to give job, the full wage shall be paid as if the work is done full-time; |
| | (h) has the right to enjoy the stipulated minimum wage without discriminating between man and woman; |
| | (i) has the right to enjoy the minimum wage in cash, if he is a worker working in the commercial, production and service business. Moreover, if the specific benefits, interests or opportunities are to be paid, it may be paid in cash or partly in cash and partly in property at prevailing regional price jointly according to the desire of the worker; |
| | (j) if he is a worker working in the agricultural and livestock breeding business, the minimum wage may be enjoyed in some cash and some property at prevailing regional price jointly according to local custom or desire of the majority |

| | of workers or collective agreement for the worker and his family in accord with the stipulations. |
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| Chapter X | Any employer: |
| Prohibitions and Penalties | (a) shall not fail to pay the workers the minimum wage stipulated under this Law; |
| Section 22 | (b) shall not pay to the workers less than the minimum wages and other benefits which is entitled by the worker under section 14; |
| | (c) relating to the accounts, schedules, documents and lists of wage of the workers: |
| | (i)shall not make false entry, deceitful recording or false and deceitful reporting; |
| | (ii)shall not fail to report to the relevant department in accord with the stipulations; |
| | (iii)shall not fail to produce when required by the inspection officer; |
| | (d) shall not fail to go and accept inspection when summoned by the inspection officer; |
| | (e) shall not obstruct or interfere with the inspection officer who comes and inspects on duty. |
| Section 24 | Any employer: |
| | (a) shall not violate any term and condition contained in the minimum wage notification; |
| | (b) shall not fail to inform the workers relating to the rates of minimum wage concerning to his workers among the rates of minimum wage stipulated under this Law and announce at the place where the workers are able to see it in the work centre and workplace; |

3.1.1.25. The Leave and Holidays Rules (1951, partially revised in 2018)

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.

| Chapter (3) | A worker has the right to take leave with respective wages or with respective |
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| | salary according to the type of leave and designated period set-up by the law. |
| Leave | |
| Section 23 | However, workers are entitled to take earned leave with respective average wages or average salary. |
| Section 24 | Workers have the right to take casual leave, medical leave or maternity leave within the probation period. |
| Section 25 | For days in which a worker is not in the workplace after the end of a period of leave, such days shall not be counted as leave. |
| Section 26 | If there are holidays just before or right after one's leave commences, these days cannot be counted as part of the leave period. |
| Section 27 | Subjecting a worker to relocation, suspension of duty, reduction of salary or |

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| | termination within their leave period is not allowed. |
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| Chapter (4) | The worker |
| Duties and Responsibilities of Worker | (a) must ask for leave from the employer or the manager or from an authorized person with Form |
| Section 49 | (1) within the normal working hours. |
| | (b) must report to the employer or to the manager or to an authorized person when the worker is back in the workplace after taking leave. |
| | (c) must inform employer or manager or authorized person, by phone or any other method, if the worker is unable to return to the workplace from their current location by the end of leave due to natural disaster or unforeseen happenings or accident occurring within the leave period. |
| Chapter (5) | The employer |
| Duties and Responsibilities of an Employer Section 50 | (a) must provide the worker casual leave, medical leave and maternity leave with respective wages or salary. Moreover, must allow the worker earned leave with respective average wages or average salary. If the employer normally pays the cost of living, then the cost of living must also be included. |
| | (b) must provide the worker with earned leave starting from the day of entitlement within 12 months, with respective average wages or with average salary, and also must advance the entitled wage prior to the worker taking leave. |
| | (c) must announce the number of entitled earned leave calculations within three months starting from the last day of the 12-month period or entitled earned leave. In this way, workers can take leave by turns (alternatively). Moreover, to fix the eligibility period within which workers can take earned leave. |
| | (d) if the worker resigns or is terminated or in case of death, has to pay the respective wages/salary within two business/working days starting from the date of incidence. |
| | (e) has to pay the eligible wage/salary for earned leave to his/her official representative (if the worker is deceased). |
| | (f) has to pay for the respective earned leave period if there is a temporary or permanent shutdown. |
| | has to allow eligible earned leave if the nature of work is less than twelve months. |
| | (g) is not allowed to suspend, to reduce the salary, to relocate or to terminate a worker due to the worker taking maternity leave or medical leave. |
| | (h) has to fill up Form (1), (2), (3), (4), (5) and (6) according to the law. These forms shall be easily accessible from the Inspector. The employer must maintain these documents for up to twelve months' period. |
| | (i) has to record the leave taken in Form (7) and submit to the Inspector not later than every seventh day of each month. |
| | (j) wants the worker to work on a gazette holiday, the employer must receive consent from the worker. The employer must submit Form (8) to the Inspector for approval. |

3.1.1.26. Public Health Law (1972)

| Chapter 2 Prevention of Public Health Objectives | To ensure the public health include not only employees but also resident people and cooperation with the authorized person or organization of health department. This law focuses as follows: |
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| | The project owner has to cooperate with the authorized person or organization in line with the section 3 and 5 of said law. |
| | The project proponent has to abide by any instruction or stipulation for public health under the section 3 of said law. |
| | The project proponent has to allow any inspection, anytime, anywhere if it is needed under the section 5 of said law. |

3.1.1.27. Prevention and Control of Communicable Disease Law 1995 (Amendment in 2011)

| Chapter 2 | (a) In order to prevent the outbreak of communicable diseases, the Department of |
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| Prevention and Response | Health shall implement the following activities systematically under the guidance |
| Section 3 | of the Ministry of Health: |
| | (i) immunization of children by injection or orally; |
| | (ii) immunization of those who have attained eligible target group including adult by injection or orally, when necessary; |
| | (iii) carrying out health education activities relating to communicable |
| | disease; |
| | (iv) carrying out the activities of surveillance, prevention and control |
| | concerning communicable disease; |
| | (v) carrying out the activities of medical examination for prevention of communicable disease in cross-border entrance and exit of the country, international airport, seaport, other necessary airport, seaport and bus terminal; |
| | (vi) prohibition or restriction of movements at home, hotel, motel and guest house; |
| | (vii) isolation of infected person of communicable disease or suspect of being infected there with; |
| | (viii) carrying out the activities of spraying, immunization by injection or orally and environmental sanitation necessary for prevention and control according to communicable diseases; |
| | (ix) giving advice to and coordinating with relevant Government departments, organizations and non-governmental organizations for |
| | construction of healthy housing, obtaining safe drinking water and fresh water for use, proper waste disposal in order to prevent occurrence of communicable disease for workers who are carrying out activities of social and economic development; |
| | (x) carrying out other functions prescribed by the Ministry of Health, from time to time. |
| Section 4 | The public shall comply with the measures undertaken by the Ministry of Health and the Department of Health under section 3 in respect of prevention of the occurrence and spread of communicable disease and control thereof." |

| Section 9 | Sub-sections (d) and (e) contained in section 11 of the Prevention and Control of Communicable Diseases Law shall be substituted as follows: |
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| | "(d) other necessary investigation; |
| | (e) prohibition of the right of movement of the vehicle carrying animal or animal product suspected of having epidemic disease." |
| Section 11 | After sub-section (e) of section 14 of the Prevention and Control of Communicable Diseases Law, sub-section (f) shall be inserted as follows: |
| | "(f) right of movement of the vehicle carrying animal or animal product suspected of having epidemic disease." |

3.1.1.28. 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; |
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| 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. |

3.1.1.29.Natural Disaster Management Law (2013)

| Chapter II | The objectives of this Law are as follows: |
|------------|--|
| Objectives | (a) to implement natural disaster management programmes systematically and expeditiously in order to reduce disaster risks; |
| Section 3 | (b) to form the National Committee and Local Bodies in order to implement natural disaster management programmes systematically and expeditiously; |
| | (c) to coordinate with national and international government departments and organizations, social organizations, other non-government organizations or international organizations and regional organizations in carrying out natural disaster management activities; |
| | (d) to conserve and restore the environment affected by natural disasters; |
| | (e) to provide health, education, social and livelihood programmes in order to bring about better living conditions for victims. |
| Chapter VI | The department, organization or person that has been assigned responsibility |

| Natural Disaster | under this Law: |
|--------------------------|---|
| Management Section 13 | (a) shall undertake the following functions after laying down the plan in accord with the natural disaster management plans in order to reduce damage and losses that are likely to be caused by natural disaster; |
| | (i) preparatory and preventive measures for natural disaster risk reduction in pre- disaster period; |
| | (ii) emergency responses including search and rescue during natural disaster; |
| | (iii) rehabilitation and reconstruction activities for improving better living standard in post disaster period and conservation of the environment that has been affected by natural disaster; |
| | (b) shall give priority and protect infants, the elderly, the disabled and women (especially pregnant women or mothers and suckling mother) in carrying out the functions contained in sub-section (a); |
| | (c) shall refrain from the act that causes injuring human dignity in supporting the victims. |
| Chapter VIII | Whoever, if the natural disaster causes or is likely to be caused by any negligent |
| Offence and Penalties | act without examination or by willful action which is known that a disaster is likely to strike, shall be punished with imprisonment for a term not exceeding three |
| Section 25 | years and may also be liable to fine. |
| Section 26 | Whoever interferes, prevents, prohibits, assaults or coerces any natural disaster management to the department, organization or person assigned by this Law shall, on conviction, be punished with imprisonment for a term not exceeding two years or with fine or with both. |
| Section 27 | Whoever misinforms about the natural disaster for the purpose of dread to the public shall, on conviction, be punished with imprisonment for a term not exceeding one year or with fine or with both. |
| Section 28 | Any department, organization or person assigned by this Law commits any of the following acts or omissions shall, on conviction, be punished with imprisonment for a term not exceeding one year or with fine or with both: |
| | (a) falsification of data on damage and losses caused by natural disasters dishonestly; |
| | (b) willful failure to perform assigned responsibility. |
| Section 29 | Whoever violates any prohibition contained in rules, notifications and orders issued under this Law shall, on conviction, be punished with imprisonment for a term not exceeding one year or with fine or with both. |
| Section 30 | Whoever commits any of the following acts or omissions shall, on conviction, be punished with imprisonment for a term not exceeding one year or with fine or with both: |
| | (a) willful failure to comply with any of the directives of the department, organization or person assigned by this Law to perform any of the natural disaster management; |

| | (b) entering into the area or building affected by natural disaster without permission; |
|------------|---|
| | (c) utilizing, trading, preventing or destroying food, relief items and rehabilitation materials provided for victims dishonestly; |
| | (d) making a false application for food, relief items and rehabilitation materials or cash assistance to the department, organization or person assigned by this Law as it is affected by natural disaster. |
| Section 31 | Whoever fails willfully to comply with the direction of remove or evacuation from an area or building at risk natural disaster to the public in such place for the purpose of reduction of damage and losses when the natural disaster strikes or it will be a natural disaster and for the purpose of no obstruction to the prevention and reduction activities of the natural disaster shall, on conviction, be punished with imprisonment for a term not exceeding one month or with fine or with both. |

3.1.1.30.Facts about YCDC (2014)

Yangon City Development Committee (YCDC) is the administrative body of Yangon which covers a total land area of 306.73 square miles. To maintain and develop the city within its territory, YCDC carries out the following duties and responsibilities:

- Drawing and implementing land policies, administration of lands, developing and enforcing planning controls, protection of heritage buildings, regulation of construction sites.
- Construction and maintenance of parks, gardens, playgrounds, recreation centers.
- Promoting events and exhibitions to enhance the work of YCDC.
- Proving parking spaces for vehicles and reducing traffic congestion.
- Construction, maintenance, upgrading and administration of markets.

3.1.1.31. Yangon City Development Committee Law (2018)

| Purpose: | To ensure sustainable development of the city so as to increase the standard of living of the city dwellers through the leadership of the City Development Committee. To promote clean, pleasant, beautiful and a habitable city like most developed cities around the world through the participation of city dwellers and to develop a people-oriented management system concerning with municipal works through responsibility, accountability, and transparency. |
|---------------|--|
| 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 |

3.1.1.32.Myanmar Engineering Council Law, 2013

| Chapter 2 | The Objectives of this law are as follows: |
|------------|---|
| Objectives | (a) to develop the dignity, ethical principles and ability of Myanmar citizen |

| Section 3 | engineers, graduate technologists and technicians who are working in the engineering services |
|--|---|
| | (b) to explore beneficial, useful and good methods to research and develop the State's natural resources and human resources with the least environmental impact by a combination of engineering technology and information technology; |
| | (c) to guide, control, maintain and take necessary action with regard to specified standards and norms relating to specified subjects, systematic methods, safety and ethical principles and duties in teaching engineering subjects and in technological research and services; |
| | (d) to perform engineering and technological activities of the State and tasks assigned by the relevant ministry or organization from time to time; |
| Chapter 13 Prohibitions and Penalties Section 37 | No one shall perform any engineering work and technological work which are specified as being dangerous to the public by a rule enacted under this law without having received a registration certificate issued by the council, except for engineers appointed in a government department or an organization in the performance of their duties. |
| Section 37 | No engineer, graduate technologist and technician shall use, together with his name, a title which is not compatible with his status. |
| Section 38 | No registered engineer, graduate technologist and technician- (a) shall transfer his registration certificate to anyone or allow it to be used by anyone; (b) shall fail to return his registration certificate to the council within 30 days from the day on which a decision is passed, or an administrative action is taken, under this law to cancel the registration certificate. |
| Section 39 | Anyone convicted of having violated the prohibition contained in section 37 shall be punished with imprisonment for not more than 2 years or with a fine or with both. |
| Section 40 | any registered engineer, graduate technologist or technician convicted of having violated the prohibition contained in section 38 shall be punished with imprisonment of not more than 1 year or with a fine or with both. |
| Section 41 | Any registered engineer, graduate technologist or technician convicted of having violated the prohibition contained in 39 shall be punished with imprisonment of not more than 1 year or with a fine or with both. |
| Section 42 | Any registered engineer, graduate technologist or technician convicted of having violated any prohibition under this law shall be punished with imprisonment of not more than 6 months or with a fine or with both. |

3.1.1.33. The Myanmar Fire Force Law (2015)

| Purpose | To ensure to prevent the fire, to provide the precautionary material and apparatuses, if the fire caused in the project area to be defeated because the project is business in which electricity and any inflammable materials such as petroleum are used. So, the project owner has to institute the specific fire service in line with the above law. |
|------------|---|
| Section 25 | The project proponent has to institute the specific fire services. The project owner has to provide materials and apparatuses for fire precaution and prevention. |

3.1.1.34.Myanmar Fire Brigade Law, 2015

| Chapter II | The objectives of this Law are as follows: |
|------------|--|
| | (a) to prevent destruction of State-owned property, private property, cultural |

| Objectives | heritage and the lives and property of the public by fire and other natural disaster; |
|--|---|
| Section 3 | (b) to organize the Fire brigade systematically and to train members of the fire brigade; |
| | (c) to carry out extinguishing fire, prevention and search and rescue when fire, other natural disaster, epidemic disease or any kind of sudden disaster occurs; |
| | (d) to educate, organize and incite extensively so as to achieve public cooperation when any disaster occurs; |
| | (e) to participate and help, if necessary, for the State safety, peace of the public and the rule of law |
| Chapter VIII | The different levels of Fire Safety Body shall: |
| Activities for Fire Safety Section 15 | (a) perform the activities for fire safety in accord with the procedures laid down by the Central Body; |
| | (b) organize and educate to obtain the cooperation of the public in the activities for fire safety; |
| | (c) supervise as may be necessary the participation of all the relevant members of fire brigade in accord with the work programmes laid down by the Central Body when fire hazard, other natural disaster, epidemic disease or sudden disaster occurs; |
| | (d) appoint fire safety warning groups in coordination with the relevant administrative organizations. |
| Section 16 | The person-in-charge of the Township Fire Services Department shall: |
| | (a) issue, from time to time, the directives on fire safety to be abided by the residents in the city, ward or village - tract; |
| | (b) inspect or cause to inspect in accord with the stipulations whether the residents in the city, ward or village - tract abide by the directives issued under sub-section (a) and arrange to enable warning or taking action, as may be necessary, against those who do not abide by. |
| Chapter XI | No person shall fail to abide by the directives of fire safety issued under section |
| Prohibitions Section 24 | 16 by the head of the relevant Township Department of Fire Services. |
| Section 25 | The owner or manager of the factory, workshop, bus terminal, airport, port, hotel, motel, lodgings, condominium, market, department, organization or business exposed to fire hazard shall, in accord with the directive of the Department of Fire Services: |
| | (a) not fail to form the Reserve Fire Brigade; |
| | (b) not fail to provide fire safety equipment. |
| Section 26 | No person shall, knowing that there is no outbreak of fire, report fraudulently the outbreak of fire to the Fire brigade. |
| Section 25 | No person shall, without cause, obstruct, block, disturb, or attack the members of the fire brigade and vehicles which departed to extinguish the fire and direct by any means to the place which is not related to the outbreak of fire. |

3.1.1.35. Protection and Preservation of Cultural Heritage, 1998

| Chapter II | The objectives of this Law are as follows: |
|------------|---|
| Objectives | (a) to implement the protection and preservation policy with respect to |
| Section 3 | perpetuation of cultural heritage that has existed for many years; |
| | (b) to protect and preserve the cultural heritage regions and the cultural heritage therein so as not to deteriorate due to natural disaster or man-made destruction; |
| | (c) to uplift hereditary pride and to cause dynamism of patriotic spirit of citizens by |

| | protecting and processing the cultural havitage regions |
|--|---|
| | protecting and preserving the cultural heritage regions. |
| | (d) to promote public awareness and will as to the high value of the protection and preservation of the cultural heritage regions; |
| | (e) to protect the cultural heritage regions from destruction; |
| | (f) to carry out protection and preservation of the cultural heritage regions in conformity with the International Convention approved by the State. |
| Chapter VI | A person desirous of carrying out one of the following shall abide by the |
| Applying for Prior Permission, Scrutinizing and | provisions of other existing laws and also apply to the Department in accordance with stipulations to obtain prior permission under this Law : |
| Issuing | (a) within the ancient monumental zone or the ancient site zone: |
| Section 13 | (1) constructing or extending a building; |
| | (2) renovating the ancient monument or extending the boundary of its enclosure; |
| | (b) within the protected and preserved zone, constructing, extending, renovating a hotel, motel, guesthouse, lodging house or industrial building or extending the boundary of its enclosure; |
| | (c) within the cultural heritage region |
| | (1) carrying out the renovation and maintenance work of the ancient monument without altering the original ancient form and structure or original ancient workmanship; |
| | (2) carrying out archaeologica4 excavations; |
| | (3) building road, constructing bridge, irrigation canal and embankment or extending the same. |
| Chapter VII | No person shall construct a building which is not in conformity with the conditions |
| Prohibitions | prescribed region wise by the Ministry of Culture in the cultural heritage region. |
| Section 22 | |

3.1.1.36. The Protection and Preservation of Ancient Monument Law (2015)

| Purpose | To ensure the protection of the ancient monument and information about it if it was in the project area. This law focuses as follows; |
|-------------------------------|--|
| Section 12 | The project proponent has to report to the village-tract or ward administrators if the project proponent will find any ancient monument under the ground or on the ground or under the water. |
| Section 15 | The project proponent has to obtain the prior permission of the Department of Ancient Research Museum if the project area is in the prescribed area of the Ancient monument. |
| Sub-section (f) of section 20 | The project proponent has to obtain the prior permission, by written, of Department of Ancient Research and National Museum if the project proponent disposes of the chemical and solid waste in the Ancient Monument. |

3.1.1.37. The Conservation of Water Resources and Rivers Law, 2016

| Chapter II | The aims of this Law are as follows: |
|-------------------|---|
| Aims Section 3 | (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 V | No person shall: |
|-----------------------------|---|
| Prohibitions | (a) carry out any act or channel shifting with the aim to ruin the water resources |
| Section 8 | and rivers and creeks. |
| | (b) cause the wastage of water resources wilfully. |
| Section 11 | No person shall: (a) 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. |
| | (b) catch aquatic creatures within river-creek boundary, bank boundary or waterfront boundary with poisonous materials or explosives. |
| | (c) dispose of disposal soil and other materials from panning for gold, gold mineral dredging or resource production in the river and creek, into the river and creek or into the water outlet gully which can flow into the river and creek. |
| Section 11 | 11. No person shall: |
| | (a) 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. |
| | (b) catch aquatic creatures within river-creek boundary, bank boundary or waterfront boundary with poisonous materials or explosives. |
| | (c) dispose of disposal soil and other materials from panning for gold, gold mineral dredging or resource production in the river and creek, into the river and creek or into the water outlet gully which can flow into the river and creek. |
| Section 19 | No one shall dispose of any substance into the river-creek that may cause damage to waterway or change of watercourse from the bank or vessel which is plying, vessel which has berthed, anchored, stranded or sunk. |
| Section 22 | No one shall, without the permission of the directorate, pile sand, shingle and other heavy materials for business purposes in the bank area and waterfront area. |
| Chapter VI Penalties | Whoever attempts or conspires or abets in the commission of an offence under this Law shall be punished with the punishment provided for such offence in this |
| Section 29 | Law. |
| Chapter VII | Any government department and organization or any person desirous of constructing drainage, utilizing river water intake, constructing bridges spanning |
| Miscellaneous Section 30 | rivers, connecting underground pipe, connecting underground electric power cable, connecting underground telecom cable or digging in rivers and creeks, bank boundary and waterfront boundary, under the requirement of work, shall in order not to adversely affect the water resources and rivers and creeks, carry out only after obtaining the approval of the Ministry of Transport. |

3.1.1.38.Underground Water Act (21st June, 1930)

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.

| Section 3 | No person shall sink a tube for the purpose of obtaining underground water |
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| | except under and in accordance with the terms of a licence granted by the water |

| | officer. |
|-----------|--|
| | Every person owning a tube which was in existence before the extension of this Act to the local area concerned shall apply to the water officer for a licence for the said tube, and such licence shall be granted free of charge. |
| Section 5 | Every person obtaining or attempting to obtain underground water shall supply the water officer with such information as the President of the Union may by rule prescribe. |
| Section 6 | The President of the Union may make rules 1- |
| | (a) prescribing the conditions subject to which licences may be granted by the water officer under section 3; |
| | (b) prescribing the form of and the procedure for granting such licences and the fees payable for the issue thereof; |
| | (c) prescribing the information to be supplied to the water officer under section 5. |

3.1.1.39.The Electricity Law (2014)

In 2014, the new Electricity Law, a comprehensive piece of legislation covering licensing, a new regulatory commission, standards, inspection, tariff, and restrictions, replaced the Electricity Law of 1984. The Electricity Law divides projects into "small" (up to 10 MW), "medium" (between 10 MW to 30 MW) and large (upwards of 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.

| To ensure compliance with the conditions of permission for productions of in line with the above law. |
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| The project proponent will implement the project with the best practices to reduce the damages on the environment, health and socio-economy also will pay compensation for the damages and will pay the fund for environmental conservation. |
| The project proponent has to take the certificate of electric safety, issued by the chief-inspector, before the commencement of power generation. |
| The project proponent has to be liable for damages to any person or enterprise by failure to abide by the quality standards or rules, regulation, by-law, order, and a directive issued |
| The project proponent has to be liable for damages to any person or enterprise by the negligence of project owner. |
| The project owner has to comply with the permission for electric searching and generation. |
| The project proponent will inform promptly to chief-inspector and head officer of related office while occurring of accident in electricity generation. |
| The project proponent will comply with the standards, rules, and procedure. Moreover, will allow the inspection by respected governmental department and organization if it is necessary. |
| The project proponent will pay the compensation to anyone who is injured or caused to death in electric shock or fire caused by the negligence or omitting of the project owner or representative of the project owner. |
| |

3.1.1.40. The Motor Vehicles Law, 2015

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| Chapter 2 | The main objectives of this law are as follows: |
| Objectives Section 3 | (a) For the safe driving of motor vehicles in public areas through registration according to official rules and regulations. |
| | (b) To provide driving licenses for driving particular types of motorized vehicles after qualification checks. |
| | (c) For the easy flow of road users and for the protection against road risks and vehicle perils. |
| | (d) To avoid traffic congestion and to use high technology transportation systems efficiently in order to implement protection against road risks and vehicle perils. |
| | (e) To reduce environmental pollution caused by motor vehicles. |
| Chapter (3) Motor vehicle registration Section 4 | Every owner of a motor vehicle must register the vehicle with the registration officer. |
| Section 5 | The owner of a motor vehicle must maintain the vehicle in a safe condition equal to the standard condition. |
| Section 6 | The registration officer may not register the motor vehicle if the vehicle is disqualified for failing to comply with safety standards or the engine is broken or if the applicant has failed to disclose previous facts about former registrations of the vehicle. |
| Section 8 | (a) The owner of the vehicle can request the registration officer to issue a temporary registration according to the regulations. |
| | (b) The temporary registration according to this section cannot be valid for more than three months. And this law does not allow temporary registration more than one time. |
| Section 10 | The owner of a vehicle must notify the registration officer if the main parts of his/her vehicle needs to be changed or repaired. |
| Chapter (9) Prohibitions | No one is allowed to drive, request someone to drive, or park, motor vehicles in public places under the following conditions: |
| Section 45 | (a) The motor vehicle is not registered. |
| | (b) The registration has been suspended, revoked or expired; the registration card is not displayed. |
| | (c) The registration card has been revoked or is expired. |
| Section 46 | No one is allowed to drive, or allow to drive, motor vehicles in public places without risk insurance for others. This prohibition does not extend to passengers. |
| Section 47 | (a) No one is allowed to drive a motor vehicle in public places without carrying the driving license with him/her. |
| | (b) No one is allowed to drive a motor vehicle in public places without a driving license. |
| | (c) The owner of, and the person responsible for, a motor vehicle are not allowed to give permission to someone without a driving license to drive in public places. |
| Section 50 | No one is allowed to do the following in public places: |
| | (a) Driving above the speed limit or below the minimum speed. |
| | (b) Driving a motor vehicle which endangers others. |
| | (c) Driving a motor vehicle after the consumption of narcotic drugs or alcohol. |
| Section 50 | No one is allowed: |
| | (a) To operate a business of manufacturing, selling or equipping motor vehicles without a business license. |
| | |

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| (b) To operate a business of maintaining or repairing motor vehicles without business license. | t a |
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3.1.1.41. The Forest Law, 3rd November, 1992

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| Chapter II | This Law shall be implemented in accordance with the following basic principles: - |
| Basic Principles | (a)to implement the forestry policy of the Government; |
| Section 3 | (b)to implement the environmental conservation policy of the Government; |
| | (c)to promote the sector of public co-operation in implementing the forestry policy and the environmental conservation policy of the Government; |
| | (d)to develop the economy of the State, to contribute towards the food, clothing and shelter needs of the public and for perpetual enjoyment of benefits by conservation and protection of forest; (e)to carry out in accordance with international agreements relating to conservation of forests and conservation of environment; (f)to prevent the dangers of destruction of forest and bio-diversity, outbreak of fires, infestation of insects and occurrence of plant disease; |
| | (g) to carry out simultaneously conservation of natural forests and establishment of forest plantations; (h)to contribute towards the fuel requirement of the country. |
| Chapter III | (a) A standing teak tree wherever situated in the State is owned by the State; |
| Constitution of Reserved Forest and Declaration of Protected Public Forest | (b) The Minister may declare, alter of cancel according to the locality the species of reserved trees which are to be conserved by the Forest Department. |
| Section 8 | |
| Chapter V | A person having obtained the right to extract forest produce on a commercial |
| Establishment of Forest Plantation Section 16 | scale who has the responsibility of establishing forest plantations or carrying out natural regeneration under a permit for the State shall carry out the same at his own expense and in accordance with stipulation. |
| Chapter VI | A person who has obtained permission for extraction of forest produce shall: - |
| Permission for Extraction of | (a) abide by the conditions contained in the permit; |
| Forest Produce Section 16 | (b) abide by the orders, directives, prohibitions and restrictions issued by the Forest Department in accordance with this Law; |
| | (c) pay the royalties, security deposits and advances due; |
| | (d) affix the mark after measuring in the manner prescribed or affix the property- mark which has been registered. |
| Chapter VII Removal of Forest Produce Section 23 | a) Whoever is desirous of moving any forest produce from one township to another within the country shall apply for a removal pass from the Forest Officer empowered by the Director- General for this purpose. |
| | (b) The provision of sub-section (a) shall not apply to the following cases: |
| | |

| | (i) moving forest produce within the area permitted for extraction thereof; |
|--|--|
| | (ii) moving minor forest produce not exceeding the prescribed quantity and not on a commercial scale; |
| | (iii) moving from one township to another in a City Development area. |
| Chapter IX Establishment of Wood- based Industry Section 30 | A private entrepreneur who is desirous or establishing a sawpit, sawmill, tongue- and-groove mill, plywood mill, veneer mill or a wood-based industry with the exception of wood-based cottage industries and furniture industries has the right to establish the same only after obtaining a permit from the Forest Officer empowered for this purpose. |
| Chapter X Search, Arrest and Administrative Action | If a person who has obtained permission to extract forest produce or his agent or his labourer violates any condition of the permit, the person granting permission to extract forest produce may pass any of the following orders: - |
| Section 34 | (a) causing the suspension of the whole or any portion of the work carried out under the permit; |
| | (b) causing payment of the prescribed penalty to be made and permitting the work to be carried on; |
| | (c) cancelling the permit; |
| | (d) cancelling the permit and confiscating the security deposit and advances; if it is considered necessary causing payment of the prescribed penalty. |
| Chapter XII Offences and Penalties | Whoever commits any of the following acts shall, on conviction, be punished with fine which may extend to kyats 5,000 or with imprisonment for a term which may extend to 6 months or with both: |
| Section 40 | (a) trespassing and encroaching in a reserved forest; |
| | (b) pasturing domestic animals or permitting domestic animals to trespass in a reserved forest; |
| | (c) breaking up any land, clearing, digging or causing damage to the original condition of the land without a permit in a reserved forest; |
| | (d) causing damage to a water-course, poisoning the water, using chemicals or explosives in the water in a reserved forest; |
| | (e) catching animals, hunting or fishing in a reserved forest; |
| | (f) kindling, keeping and carrying any fire or leaving any fire burning which may set fire to the forests in a reserved forest; |
| | (g) moving forest produce without submitting to examination at the revenue station; |
| | (h) violating any provision of the rule, procedure, order, directive or notification issued under this Law |

3.1.1.42.National Land Use Policy, 2014 October

| Chapter I | In terms of the National Land Use Policy: |
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| Basic Principles of the National Land Use Policy Section 8 | (a) It shall use the land resources of the State sustainably and systematically by conserving and protecting them for the interest of all peoples of the State; (b) It shall enact the National Land Law which harmonize the existing laws relating to use of land resources and land tenures in the whole country including rural and urban areas and which may be implemented systematically; (c) It shall cause to decide the matters relating to land disputes arisen between the land users and the stakeholders transparently and truly in accord with the National Land Law; |
|---|--|
| Section 8 | In implementing the continued entry of the foreign direct investments, sustainable economic development, effectiveness of the environmental conservation and protection, social harmonization, firmness of land tenures, immoveable property right and settlement of land dispute: (a) It shall increase responsible undertaking and respect the rule of law; (b)It shall strengthen the clean governance system by carrying out land use management, land tenure management in accord with law systematically and truly; (c) It shall establish modernized systems to enable to have access to correct information relating to land use management and land tenure management; (d)It shall establish the land dispute settlement mechanism which is |
| | easily implementable and impartial; (e) It shall arrange and carry out coordination process with the Stakeholder's transparently. |
| Chapter II The Situation of the Existing Land Management Mechanism Section 12 | The State has arranged and carried out to expand agricultural land use by the State-owned organizations, cooperative societies, associate ons, joint ventures, other organizations which acquire agricultural land for businesses and individual agriculturalists after forming the Vacant, Fallow and Virgin Lands Management Central Committee under the Notification 44/91 dated 13 th November, 1991. |

3.1.1.43. The Conservation of Biodiversity and Protected Areas Law, 1994

| Chapter II | The objectives of this Law are as follows: - | |
|----------------------------------|---|--|
| Objectives | (a) to implement the Government policy for wildlife protection; | |
| Section 3 | (b) to implement the Government policy for natural areas conservation; | |
| | (c) to carry out in accordance with the International Conventions acceded by the State in respect of the protection and conservation of wildlife, ecosystems and migratory birds; | |
| | (d) to protect endangered species of wildlife and their natural habitats; | |
| | (e) to contribute for the development of research on natural science; | |
| | (f) to protect wildlife by the establishment of zoological gardens and botanical gardens. | |
| Chapter V | The Director General shall, with the approval of the Minister: | |
| Protected Wildlife Section 15 | (a) determine and declare endangered species of wild animal which are to be protected | |
| | according to the following categories: | |
| | (i) completely protected species of wild animals; | |
| | (ii) normally protected species of wild animals; | |

| | (iii) seasonally protected species of wild animals;(b) determine and declare the endangered species of wild plants and their nature habitats thereof; |
|---|--|
| | (c) lay down and carry out measures for the preservation of protected wildlife species; |
| | (d) co-ordinate with the relevant department or organization if the wildlife which are to be determined for protection are under the administration of another Government department or Government organization. |
| Chapter X Appeal Section 33 | A person dissatisfied with an administrative order passed by a Forest Officer may file an appeal to the Director General within 30 days from the date of such order. |
| Chapter XI Offences Arid Penalties Section 35 | Whoever commits any of the following acts shall, on conviction be punished with imprisonment for a term which may extend to 3 years or with fine which may extend to kyats 10,000 or with both: - hunting without a licence; |
| | violation of any condition of the hunting licence; |
| | raising without permission, for commercial purpose normally protected wild animals and seasonally protected wild animals; |
| | causing water and air pollution, causing damage to a water-course or putting poison in the water in a natural area; |
| | possessing or disposing of pollutants or mineral pollutants in a natural area; stablishing and operating a zoological garden or a botanical garden without a licence. |
| Section 36 | Whoever commits any of the following acts shall, on conviction be punished with imprisonment for a term which may extend to 5 years or with fine which may extend to kyats 30,000 or with both: - |
| | (a) killing, hunting or wounding a normally protected wild animal or seasonally protected wild animal without permission, possessing, selling, transporting or transferring such wild animal or any part thereof without permission; |
| | (b) extracting, collecting or destroying in any manner any kind of protected wild plants within the prescribed area without permission; |
| | (c) destroying ecosystem or any natural state in the natural area; |
| | (d) altering, removing, destroying or obliterating without permission. any boundary mark of a natural area or any boundary mark of a zoological garden or botanical garden administered by the Government or in which the Government has subscribed share capital. |
| Section 37 | Whoever commits any of the following acts shall, on conviction be punished with imprisonment for a term which may extend to 7 years or with fine which may extend to kyats 50,000 or with both: - |
| | (a) killing, hunting or wounding a completely protected wild animal without permission, possessing, selling, transporting or transferring such wild animal or any part thereof without permission; |
| | (b) exporting without the recommendation of the Director General a completely protected wild animal or a protected wild plant or any part thereof. |
| Section 38 | The provisions of section 36 sub-section (a) or section 37 sub-section (a) shall not apply to: - |
| | the possessing as a souvenir or wearing as a traditional custom of any part of normally protected wild animal or a seasonally protected wild animal; |
| | the possessing or wearing with a certificate of registration issued under section 27 subsection (b) of any pad of a completely protected wild animal; the possessing, use, sale, transport or transfer of a drug prepared from a part of a |

protected wild animal.

3.2. AUTHORIZED INSTITUTIONS AND RECOMMENDATIONS

The Ministry of Environmental Conservation and Forestry (MOECAF) 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 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.

3.3. NATIONAL ENVIRONMENTAL QUALITY (EMISSION) GUIDELINES

According to the Environmental Conservation Law, MOECAF 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. In section 13 of NEQG, Air emissions, noise, odor, and liquid/effluent discharges will be sampled and measured at points of compliance as specified in the project EMP and ECC.

3.3.1. General Guidelines

3.3.1.1. 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 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 3-1.

| Parameter | Averaging Period | Guideline Value |
|---------------------------------------|------------------|-----------------|
| Nitrogen Dioxide | 1-year | 40 |
| | 1-hour | 200 |
| Ozone | 8-hour | 100 |
| Particulate Matter PM10 ^a | 1-year | 10 |
| | 24-hour | 50 |
| Particulate Matter PM2.5 ^b | 1-year | 10 |

| Table 3-1 WHO's | air quality | guideline |
|-----------------|-------------|-----------|
|-----------------|-------------|-----------|

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| Parameter | Averaging Period | Guideline Value |
|----------------|------------------|-----------------|
| | 24-hour | 25 |
| Sulfur dioxide | 24-hour | 20 |
| | 10-minute | 500 |

^aParticulate matter 10 micrometers or less in diameter

^bParticulate matter 2.5 micrometers or less in diameter

3.3.1.2. 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.

| 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 |
| 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 |

| | | | / | |
|-----------------------|-----------------------|-------------------------|------------------|---------------------------------|
| Table 3-2 Wastewater, | . Storm Water Runoff. | . Effluent and Sanitary | v Discharges (ge | neral application) ³ |

³Pollution prevention and abatement handbook. 1998. Toward cleaner production. World Bank Group in collaboration with United Nations Environment Programme and the United Nations Industrial Development Organization.

| Parameter | Unit | Guideline Values |
|-------------------------|--------|------------------|
| 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 |
| рН | 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

3.3.2. IFC EHS Guidelines

The Environmental, Health and Safety (EHS) Guidelines by 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 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 3-3shows the contents of the section of Community Health and Safety.

| Table 3-3 Community nearth 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 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 | |

| Contents | Brief Description |
|---|---|
| | 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. |

Source: IFC, Environmental, Health, and Safety (EHS) Guidelines, General EHS Guidelines: Community Health and Safety (April 30.20070)

3.4. INSTITUTIONAL ARRANGEMENT

The Ministry of Environmental Conservation and Forestry (MOECAF) 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 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.

3.5. COMMITMENT OF POLLY HK (MYANMAR) CO., LTD.

Polly HK (Myanmar) Co., Ltd. shall be responsible for the preservation of the environment at and around the area of project site. In addition to this, it shall carry out as per instructions made by Ministry of Natural Resources and Environmental Conservation (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.

Polly HK 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 services
- To carry out fire safety assessment and ensure adequate and appropriate fire safety measures for employees

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

- a) Onsite Measurements and Analysis Baseline parameters such as indoor temperature, humidity, noise and wastewater condition of the project operation area. The analyzed results are mentioned in this chapter.
- b) Secondary data collection of proposed project site area Socio economic condition, physical/biological environment, and weather data are collected from official township data of Hlaing Tharyar Township, Yangon Region.

4.2. ENVIRONMENTAL BASELINE STUDY

The field observations for determining the environmental baseline of the proposed project area were 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.

4.3. PHYSICAL COMPONENT

4.3.1. Topography

The proposed project area is situated in Shwe Lin Ban Industrial Zone, Hlaing Tharyar 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 (Pliestocene to Recent), the non-marine fluvialtile 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, limestones and conglomerate. Geological map of Yangon Regional area is shown in Figure 4-1.

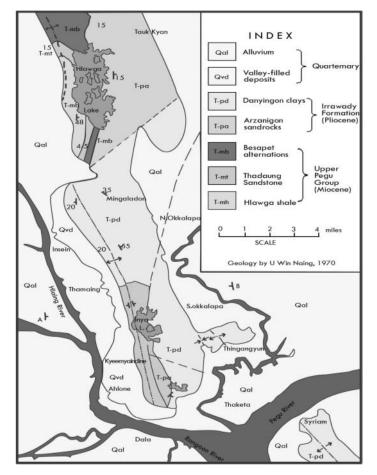


Figure 4-1 Geological Map of the project area

4.3.3. Air Quality

To determine the existing baseline ambient air quality status within the project site on 30 October 2018, 3-hours of working period air pollutants level, which include dust PM₁₀ and PM_{2.5} were measured at the selected site using the Air Quality Monitoring System. To reveal the existing status of baseline air quality, the average ambient air qualities measured were compared with National Environmental Quality (Emission) Guideline and international ambient air quality standard (NAAQS, ACGIH) guidelines. It was observed that the air quality of (PM10, PM2.5) are within the National Environmental Quality (Emission) Guideline.

| Table 4-1 | Observed air quality results |
|-----------|------------------------------|
|-----------|------------------------------|

| Parameters | Observed value | Guideline value | Unit | Organization | Period |
|-------------------|----------------|-----------------|-------|--------------|--------|
| PM ₁₀ | 47.4 | 50 | µg/m³ | NEQG | 3 hrs |
| PM _{2.5} | 37.8 | 25 | µg/m³ | NEQG | 3 hrs |

NEQ = National Environmental Quality (Emission) Guideline

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

ACGIH = the American Council of Governmental Industrial Hygienists recommends

4.3.4. Hydrology

The nearest sensitive water body is about 0.53 km far from the Hlaing River. Utilization of groundwater for operation use of production process, boiler and general use of domestic purpose is achieved by tube 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 MSL4.

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. wells with the site.

4.3.5. Climate

The proposed project is located at Shwe Lin Ban Industrial Zone, Hlaing Tharyar Township, Yangon Region. The climate condition of Hlaing Tharyar Township is the dry season of area in which the project starts in December and ends in March. The raining season starts in June and ends in September and the cold season follow with the cooler, drier months of October to January. The highest temperature is 42°C and low range is 27°C reference from Township Meteorology data, Regional Data of Hlaing Tharyar Township. 2012 to 2017 Yearly data of rainfall and temperature is presented in Table 4-2.

| | / infaal faith | an and tomporataro | | |
|-----------|----------------|--------------------|------------------------|------------------------|
| Year | R | ainfall | Temper | ature |
| | Raining day | Rainfall value | Summer season Max (°C) | Winter season Min (°C) |
| 2012-2013 | 121 | 53.46 | 41 | 27 |
| 2013-2014 | 131 | 61.25 | 40 | 26 |
| 2014-2015 | 128 | 58.35 | 39 | 25 |
| 2015-2016 | 113 | 48.45 | 40 | 26 |
| 2016-2017 | 126 | 56.97 | 41 | 27 |

| Table 4-2 | Annual rainfall and temperature |
|-----------|---------------------------------|

Source: Department of Administrative Hlaing Tharyar Townships, Regional data (www.gad.gov.mm.com)

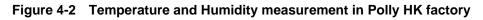
4.3.6. Indoor Temperature and Humidity

The indoor temperature and humidity condition during 30 October 2018 shows the average temperature of 31.88 °C while the average humidity is 85.16 %.



Temp and HD measure at Cutting

Temp and HD measure at Sewing



4.3.7. Water quality

The baseline data on wastewater quality were collected and measured on 30 October, 2018 with respect to NEQ Guideline Standard and Laboratory analysis results can be seen in **(Appendix C)** for wastewater. The water quality of the nearest water features, which are likely to be affected by the project was studied with the aim of understanding, preventing and minimizing water pollutions in the public water sources so as to ensure human health and biodiversity. Water quality is one of the key factors affecting the environment and health. Analyzed results of groundwater result compare with NEQG, wastewater effluent results of the whole factory. The collected samples factory wastewater was tested at Ecological laboratory.



Figure 4-3 Wastewater sample collection

| Results | Standard | Unit | Remark |
|---------|---|---|---|
| 7.3 | 6-9 | | Normal |
| 23 | ± 3 | °C | - |
| 125 | - | HU | - |
| 8 | NG | FAU | Clear |
| 350 | ≤ 2000 | mg/L | Normal |
| 9 | ≤ 50 | mg/L | Normal |
| 359 | - | mg/L | - |
| 7.24 | NG | mg/L | - |
| 46 | ≤ 50 | mg/L | Normal |
| 95 | ≤ 250 | mg/L | Normal |
| 0 | ≤ 0.1 | mg/L | Clear |
| 1.72 | ≤ 0.2 | mg/L | Normal |
| | 7.3 23 125 8 350 9 359 7.24 46 95 0 | 7.3 $6-9$ 23 ± 3 125 - 8 NG 350 ≤ 2000 9 ≤ 50 359 - 7.24 NG 46 ≤ 50 95 ≤ 250 0 ≤ 0.1 | 7.3 6-9 23 \pm 3 °C 125 - HU 8 NG FAU 350 \leq 2000 mg/L 9 \leq 50 mg/L 7.24 NG mg/L 46 \leq 50 mg/L 95 \leq 250 mg/L 0 \leq 0.1 mg/L |

| Table 4.0 | We starreten lek enstern | |
|-----------|--------------------------|-------------------|
| Table 4-3 | Wastewater laboratory | y analysis result |

4.3.7.1. Summary of wastewater result

According to the wastewater analysis results above shown in Table 4-3, all of the lists parameter is normal and within the limit of NEQ (emission) guideline.

4.3.8. Noise

The Noise level was measured by using Digital Sound Level Meter for working hours on 30, October 2018. The average noise level in the project site area is 66.575 dBA (Table 4-4). Receptor (nearby production area at project site) noise level of measurement are within the comfortable range of 40-60 decibel. However, found to be the Noise source monitoring at operation area (inside the production sector) of noise level is not exceeding the acceptable level of National Environmental Quality (Emission) Guideline.



Indoor Noise Measurement of the project

| Table 4-4 | Result of Sour | nd level meas | urement in the | factory | |
|-----------|----------------|---------------|----------------|------------|------------------|
| Rec No | Measure Value | Weight | Time | Date | Data Group Index |
| 1 | 69 | А | 15:14:11 | 2018-10-30 | 0 |
| 2 | 70 | А | 15:15:11 | 2018-10-30 | 1 |
| 3 | 68 | А | 15:16:11 | 2018-10-30 | 1 |
| 4 | 70 | А | 15:17:11 | 2018-10-30 | 1 |
| 5 | 67 | А | 15:18:11 | 2018-10-30 | 1 |
| 6 | 71 | А | 15:19:11 | 2018-10-30 | 1 |
| 7 | 69 | А | 15:20:11 | 2018-10-30 | 1 |
| 8 | 69 | А | 15:21:11 | 2018-10-30 | 1 |
| 9 | 70 | А | 15:22:11 | 2018-10-30 | 1 |
| 10 | 70 | А | 15:23:11 | 2018-10-30 | 1 |
| 11 | 71 | А | 15:24:11 | 2018-10-30 | 1 |
| 12 | 69 | А | 15:25:11 | 2018-10-30 | 1 |
| 13 | 70 | А | 15:26:11 | 2018-10-30 | 1 |
| 14 | 70 | А | 15:27:11 | 2018-10-30 | 1 |
| 15 | 71 | А | 15:28:11 | 2018-10-30 | 1 |
| 16 | 7 | А | 15:29:11 | 2018-10-30 | 1 |
| 17 | 71 | А | 15:30:11 | 2018-10-30 | 1 |
| 18 | 71 | А | 15:31:11 | 2018-10-30 | 1 |
| 19 | 72 | А | 15:32:11 | 2018-10-30 | 1 |
| 20 | 72 | А | 15:33:11 | 2018-10-30 | 1 |
| 21 | 70 | А | 15:34:11 | 2018-10-30 | 1 |
| 22 | 70 | А | 15:35:11 | 2018-10-30 | 1 |

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| Rec No | Measure Value | Weight | Time | Date | Data Group Index |
|--------|---------------|--------|----------|------------|------------------|
| 23 | 70 | А | 15:36:11 | 2018-10-30 | 1 |
| 24 | 70 | А | 15:37:11 | 2018-10-30 | 1 |
| 25 | 70 | А | 15:38:11 | 2018-10-30 | 1 |
| 26 | 72 | А | 15:39:11 | 2018-10-30 | 1 |
| 27 | 72 | А | 15:40:11 | 2018-10-30 | 1 |
| 28 | 72 | А | 15:41:11 | 2018-10-30 | 1 |
| 29 | 71 | А | 15:42:11 | 2018-10-30 | 1 |
| 30 | 71 | А | 15:43:11 | 2018-10-30 | 1 |
| 31 | 70 | А | 15:44:11 | 2018-10-30 | 1 |
| 32 | 68 | А | 15:45:11 | 2018-10-30 | 1 |
| 33 | 67 | А | 15:46:11 | 2018-10-30 | 1 |
| 34 | 68 | А | 15:47:11 | 2018-10-30 | 1 |
| 35 | 68 | А | 15:48:11 | 2018-10-30 | 1 |
| 36 | 69 | А | 15:49:11 | 2018-10-30 | 1 |
| 37 | 67 | А | 15:50:11 | 2018-10-30 | 1 |
| 38 | 0 | А | 15:51:11 | 2018-10-30 | 1 |
| 39 | 70 | А | 15:52:11 | 2018-10-30 | 1 |
| 40 | 71 | А | 15:53:11 | 2018-10-30 | 1 |

66.575

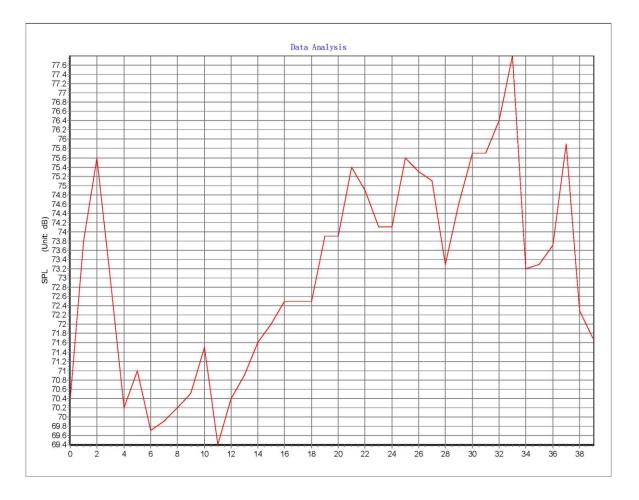


Figure 4-4 Sound analysis graph

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 Shwe Lin Ban industrial zone. 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

Polly HK is located across Hlaing Tharyar Township townships in Yangon Region. In 2017, there are about people 414,209 in Township as shown in Table 4-5.

Table 4-5Population of Males and Females at Hlaing Tharyar Township (2017)

| ltem | 0 | Older 18 yea | ır | Yo | unger 18 ye | ear | | Total | |
|-------|---------|--------------|---------|--------|-------------|---------|---------|---------|---------|
| | Males | Females | Total | Males | Females | Total | Males | Females | Total |
| Urban | 105,075 | 119,903 | 224,978 | 44,884 | 49,782 | 94,666 | 149,959 | 169,685 | 319,644 |
| Rural | 33,257 | 31,319 | 64,576 | 14,953 | 10,536 | 29,989 | 48,210 | 46,355 | 94,565 |
| Total | 138,332 | 151,222 | 289,554 | 59,837 | 64,818 | 124,655 | 198,169 | 216,040 | 414,209 |

Source: Department of Administrative Hlaing Tharyar Townships, Regional data (www.gad.gov.mm.com)

4.5.2. Religion

The different kinds of religion present in Hlaing Tharyar Townships are as shown in Table 4-6.

| Table 4-6 | Religion in Hlaing Tharyar Township (2017) |
|-----------|--|
|-----------|--|

| Township | Buddhist | Christian | Hindu | Muslim | Total |
|----------------|----------|-----------|-------|--------|---------|
| Hlaing Tharyar | 395,789 | 6,400 | 8,320 | 3,700 | 414,209 |

Source: Department of Administrative Hlaing Tharyar Townships, Regional data (www.gad.gov.mm.com)

4.5.3. Local Economy

Among regional towns, Hlaing Tharyar Township has a variety of businesses and services operating in the community with other businesses/services, based in the region. Most of the sources of livelihood in the Township are employment of factory. Services and facilities available include:

- 1. post office
- 2. beauticians
- 3. butcher
- 4. hairdressers
- 5. furniture and electrical store
- 6. restaurants
- 7. cafes
- 8. shoe and clothing shops
- 9. industrial services
- 10. pharmacy

- 11. veterinarian
- 12. bus service
- 13. gift stores
- 14. music store
- 15. pubs and bars
- 16. florist

4.5.4. Public Infrastructure and Access

4.5.4.1. Communication and Transportation

Major transportation route in Hlaing Tharyar Township are port and car road as presented in Table 4-7.

| Table 4-7Transportation route |
|-------------------------------|
|-------------------------------|

| Categories | Township | Miles | |
|---|---|-----------------------------|-----|
| | From | to | |
| Sail | Pan hlaing River and Hlaing confluence | Ngwe pin Lae Industrial | 8 |
| Bus line (61,23,68,16,6,69,17,74,20,52,53,54,67) City Bus | WYTU | Downtown area | |
| Car (Yangon - Pathein road) | King BaYin Naung bridge | Mya Sein yaung Stream | 5.4 |
| Car (Yangon – Nyaung Tone road) | Aung zaya Bridge BOC traffic circle | | 3.2 |
| Car (King Anawyattar Road) | Shwe Pyi Thar Bridge | Thamakone Traffic circle | 4.6 |

Source: Department of Administrative Hlaing Tharyar Townships, Regional data (www.gad.gov.mm.com)

4.5.4.2. Education

Location of major schools was 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 West Yangon Technological University, in the Hlaing Tharyar Township. The name and the located village tract/ ward of schools are described in Table 4-8.

 Table 4-8
 List of major school in Hlaing Tharyar Township

| No. | Name of School | Location |
|-----|--------------------------------------|-----------------------------|
| 1 | West Yangon Technological University | Outside Padan Village Tract |
| 2 | BEHS (1) | N0 (2) ward |
| 3 | BEHS (2) | No (12) ward |
| 4 | BEHS (3) | NO (17). Ward |
| 5 | BEHS (4) | NO (5) ward |
| 6 | BEHS (5) | NO (7) ward |

| 7 | BEHS (6) | Yae Okken |
|----|---------------------|-----------------------------|
| 8 | BEHS(7) | NO (16) ward |
| 9 | BEHS (8) | NO (20) ward |
| 10 | BEMS (Branch) (1) | NO (6). Ward |
| 11 | BEMS (Branch) (2) | Nyaung Village Tract |
| 12 | BEMS (Branch) (3) | Dine Su, Nyaung Village |
| 13 | BEMS (Branch) (4) | NO (6) ward |
| 14 | BEMS (Branch) (5) | NO (1) ward |
| 15 | BEMS (Branch) (6) | NO (10) ward |
| 16 | BEMS (Branch) (7) | Outside Padan Village Tract |
| 17 | BEMS (Branch) (8) | NO (18) ward |
| 18 | BEMS (Branch) (9) | Shwe Lin Pan Village Tract |
| 19 | BEMS (Branch) (10) | NO (9). Ward |
| 20 | BEMS (Branch) (11) | NO (12). Ward |
| 21 | BEMS (Branch) (12) | NO (18). Ward |
| 22 | BEMS (Branch) (13) | NO (15). Ward |
| 23 | BEMS (Branch) (14) | NO (14). Ward |
| 24 | BEMS (Branch) (15) | NO (13). Ward |
| 25 | BEMS (Branch) (16) | NO (11). Ward |
| 26 | BEMS (Branch) (17) | NO (7). Ward |
| 27 | BEMS (Branch) (18) | NO (11). Ward |
| 14 | BEPS (1 to 32) | Hlaing Thar Yar |
| 15 | Pre School (1 to 6) | Hlaing Thar Yar |

Source: Department of Administrative Hlaing Tharyar Townships, Regional data (www.gad.gov.mm.com)

4.5.4.3. 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 Hlaing Tharyar Township, no accidental work injuries reported to the township hospital in 2013. The common diseases are as shown in Table 4-9 and Table 4-10.

| Table 4-9 | Common Diseases in the project area, 2017 |
|-----------|---|
|-----------|---|

| Disease | Hlaing Tharyar | | |
|--------------------------|----------------|-----------|--|
| Disease | Morbidity | Mortality | |
| Malaria (Per 100000P) | - | - | |
| Dysentery | 21 | - | |
| Diarrhea (Per 100000P) | 37 | - | |
| TB (Sputum+)(Per 10000P) | 67 | - | |
| Hepatitis | 5 | - | |

Source: Department of Administrative Hlaing Tharyar Townships, Regional data (www.gad.gov.mm.com)

| Hospital Name | Beds/Services | Responsible |
|---------------------------------|---------------|-------------|
| Township Hospital | 200 | Government |
| Cottage Hospital (Shwe Lin Pan) | 16 | Government |
| Pan Hlaing | 95 | Private |
| Tun Foundation | 20 | Private |
| Total | 330 | - |

Table 4-10 Lists of hospital in the Hlaing Tharyar Township

Source: Department of Administrative Hlaing Tharyar Townships, Regional data (www.gad.gov.mm.com)

4.6. CULTURAL AND VISUAL COMPONENTS

Haing Tharyar 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.

5. IMPACT ASSESMENT

5.1. SUMMARY OF ENVIRONMENTAL, SOCIAL AND HEALTH IMPACT ASSESSMENT

This chapter provides an assessment of potential impact arising from the project. The methodological approach used for the project impact assessment is adapted from the impact assessment methods recommended by the Canadian Environmental Assessment Agency (1990), by the World Bank (1991) and by the International Finance Corporation (Dec. 1998).

5.2. METHODOLOGY OF ASSESSMENT

The assessment includes description of how an environmental effect will occur or how the project will interact with the environment, the mitigation and environmental protection measures proposed to reduce or eliminate the environmental effect and the characterization of the residual environmental effect of the project. This would comprise an assessment into the Probability, Extent and Duration of the anticipated potential positive or negative impact. These three qualifiers are grouped under one synthesis indicator, the Significant of the impact. Figure 5-1 schematically present the basic process leading to evaluate the significant of the potential impact.

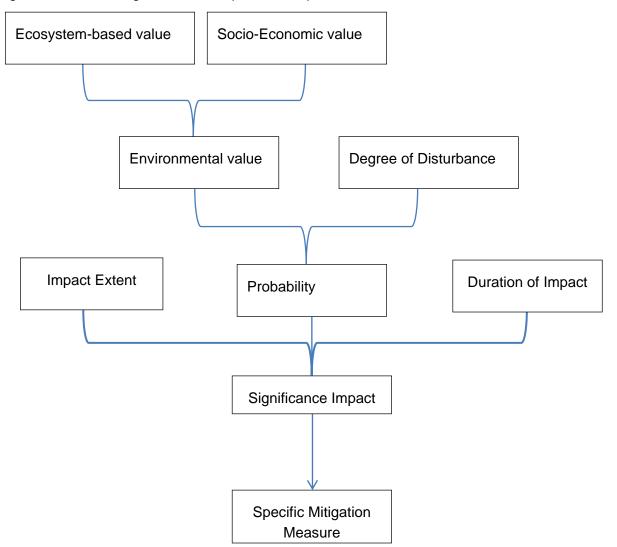


Figure 5-1 Impact evaluation methodology

5.2.1. Environmental Value

The environmental value of a component is the synthesis of its ecosystem-based value and social value.

Ecosystem based value: express the relative importance of a compound to the ecosystem as measured by its function or role. It integrates other notions as representativeness, patterns of use, diversity/rare/unique characteristics. This value is the result of judgment of specialists based on a systematic analysis of the characteristics of the environmental component. It can consider as

- High: when the component is of major interest in terms of its ecosystem-based function, biodiversity or exceptional qualities and there is a consensus in the scientific community that it should be conserved or protected,
- Medium: when the component is of strong interest and recognized qualities and there is concern, although not consensus, for its conservation or protection,
- Low: when the component holds little interest, has few notable qualities and there is little concern for its conservation or protection

Social value: express the relative importance attributed to the component by the public, the various level of government or any other legislative or regulatory authority. The social value indicates the popular or political desire or will to conserve the integrity or the original character of a component. This will is expressed through the legal protection that the component is accorded or by the concern of the local or regional public for the component. The social value evaluation is based on information gathered during various public consultations in the study zone. It can be considered as:

- High: when the component is the object of legislative or regulatory measures (conservation parks, etc.) or is essential to human activities (e.g., potable water),
- Medium: when the component is valued or used by a significant portion of the concerned population but is not legally protected,
- Low: when the component is of little concern or is not used by the population.

The environmental value integrates the ecosystem-based value and the social value as shown in Table 5-1.

| Social Value | Ecosystem-Based Value | | | |
|--------------|-----------------------|--------|--------|--|
| | High Medium Low | | | |
| High | High | High | High | |
| Medium | High | Medium | Medium | |
| Low | High | Medium | Low | |

 Table 5-1
 Grid for determining environmental value

5.2.2. Degree of Disturbance

The degree of disturbance for a component defines the scope of the changes that affect the component given its sensitivity to the proposed project. The changes for a given component may be negative or positive and the effect on the environmental component may be direct or indirect. The cumulative, synergetic or delayed impacts, beyond the simple relation of cause and effect, could

amplify the degree of disturbance of an environmental component when the environment is especially fragile. The four levels of degree of disturbances are;

- I. High: when an impact affects the continued viability of the environmental component, strongly and irreversible impairs the component or restricts its use in a significant way,
- II. Medium: when the impact changes, either by reducing or increasing, the quality or use of the environmental component affected, without, however compromising its integrity,
- III. Low: when the impact affects the quality use or integrity of the environmental component in a way that is barely perceptible.

5.2.3. **Probability of the impact**

The probability of the impact expresses the relative importance of consequences attributable to a change in an environmental component. The intensity of the impact is an integration of the component's environmental value can be either positive or negative. The probability of the impact results from the interaction of the degrees of disturbance with the environmental value as shown in Table 5-2.

| Degree of | Environmental Value | | |
|-------------|---------------------|-----------------|-----------------|
| Disturbance | High | Medium | Low |
| High | Highly Probable | Probable | Improbable |
| Medium | Probable | Probable | Very Improbable |
| Low | Improbable | Very Improbable | Very Improbable |

| Table 5-2 | Grid for | determining | intensity | of an impact |
|-----------|----------|-------------|-----------|--------------|
|-----------|----------|-------------|-----------|--------------|

5.2.4. Extent of the impact

The extent of the impact expresses the spatial influence of the effects produced by an intervention on the environment. This refers to either a distance or an area over which a component will undergo changes. It could also refer to the portion of the population that will be affected by the changes. The three levels of extent of the impact on the geographical scope of the project as the outline are;

- National; when an impact affects a large geographic area or some of components located a significant distance from the project area
- Regional; when an impact affects a region of area or a number of components located a significant distance from the project site
- Local; when the impact affects a relatively restricted area located within, near or at a limited distance from the project site,
- Site-specific; when the impact affects only a very restricted area in the proximity of the project site,

5.2.5. Duration of the impact

The duration of the impact describes the period of time during which a component undergoes changes due to the impact, is not necessarily equivalent to the period of time during which the direct

source of impact is active. It must also take into consideration the frequency when the impact is intermittent. It is characterized as;

- (Life of operation) when the effects are experienced continuously for the life of the facility or even beyond if the effect is irreversible
- (6-15 years) when the effects are experienced prolonged period of time but less than the duration of the life of the operation
- (2-5 years) when the effects are experienced over a relatively longed period of time during construction
- (0-1 year) when the effects are experienced over a limited period, generally corresponding to the start-up period

5.2.6. Significance of the impact

The relative importance of each impact assessed based on the understanding that general mitigation measures will be integrated into the baseline project. For example, if the project states as a general mitigation measure that forests will be protected near water courses, the impact analysis assumes that all forests will be untouched wherever there will be activities near water courses. 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.

The impacts of pollution, natural environment and social environment, health and safety, emergency risk, and others were classified as A to D in accordance with the following criteria, assuming no specific measures toward the impacts are taken:

- A⁻: Significant negative impact
 A⁺: Significant positive impact
- ➢ B⁻: Some negative impact
 B⁺: Some positive impact
- > C: Impacts are not clear, need more investigation
- > D: No impact or impacts are negligible, no further study required

The impact assessment and its scale from the interaction among the probability, extend and duration of the impact as shown in Table 5-3.

| Assessment | 1 | 2 | 3 | 4 |
|-------------|-------------------|------------|------------|-----------------|
| Scale | | | | |
| Probability | Very Probable | Probable | Improbable | Very Improbable |
| Extend | National | Regional | Local | Site-specific |
| Duration | Life of operation | 6-15 years | 2-5 years | 0-1 year |
| Significant | A | В | С | D |

 Table 5-3
 Evaluation of impact assessment

5.3. POTENTIAL IMPACT DURING OPERATION PHASE

The following are the anticipated impacts during operation phases of Polly HK laundry service factory;

- Pollution
- Natural Environment
- Social Environment
- Health and Safety
- Emergency Risk
- Other

None of the impacts during operation phase are affected directly to local communities, but some environmental impacts are primarily related to the factory in which resource utilization is an issue that should be seen from a sustainable development perspective, combustion of fossil fuels, greenhouse emission and occupational health and safety for employees working at the proposed factory.

5.3.1. Summary of Environmental Risk Assessment

Results of the environmental and social impact assessment are shown in Table 5-4. These impacts were evaluated in operation phase (OP). Even though the Project does not plan to close in the near future, the impact at the closing phase was estimated in case the Project should be closed due to unanticipated cases.

| Table 5-4 Results of Impact Assessment | | | |
|--|------------|--|--|
| Categories | Evaluation | Reason of Evaluation | |
| Pollution | | | |
| Air Quality | D | Impact on air quality due to increase of operation vehicle, boiler and generator is expected. Generator combustion would be generated SO, NO, CO, VOC and PM caused by significant impact in surrounding environment. This emergency generator usage if normal electricity supply could not provide for the proposed project. | |
| Water Quality | B | Impact on water quality of the surrounding water bodies is not expected due to wastewater generated from the workers. And also, wastewater must be treated by wastewater treatment plant at the factory. | |
| Waste | B | Industrial waste would be generated from operation such as cloth scraps, fabric paper tube, plastic bags, cardboard, paper board, wood, plastic string, etc. | |

| Table 5-4 | Results of Impact | Assessment |
|-----------|-------------------|------------|
| | | |

| Categories | Evaluation | Reason of Evaluation |
|---|----------------|---|
| | | Waste would be generated from operation workers, such as food waste, plastic, paper, glass, metal can, sanitary napkins, tissue paper, garden waste, etc. |
| Noise | D | Increase of noise levels due to the operation of the sewing line, cutting line, etc. would occur in site specific. |
| Offensive odor | D | There is not a possibility that offensive odor would be generated due to garment production process. |
| Natural Environment | | |
| Protected area | D | Impact on protected areas, hydrology/topography/geology |
| Flora/Fauna/Ecosystem | | and soil erosion is not expected because of proposed project is situated in Industrial area of Hlaing Tharyar Township. |
| Hydrology | | |
| Topography/Geology | | |
| Soil erosion | | |
| Social Environment | | |
| Living and livelihood | A ⁺ | There will be the improvement of local economy due to the increase of job opportunity with the start of the construction/demolished work and the operation by the Project. |
| Children's right | D | There is no activity that will cause impact on children's right. Child labour must not use in factory operation. Basically, children below 13 years old are not prohibited to work in any shop, commercial establishment or factory according to the labor law in Myanmar. Therefore, child labor would be controlled well to prevent employing. |
| Cultural and Heritage/Asset Landscape | D | There is no factor to cause the negative impact on the existing cultural, heritage/asset and landscape. Because of proposed project is situated in Industrial area of Hlaing Tharyar Township. |
| Health and Safety | | |
| Risks of infectious disease such as ARI, | D | There is a possibility to increase the risks of infectious diseases due to influx of workers during in operation area. |

| Categories | Evaluation | Reason of Evaluation |
|--------------------------------|------------|--|
| TB, etc. | | Risks for communicable and vector-borne disease are expected among workers and the surrounding local community due to the influx of labors from outside. Existing public health care program will be utilized in cooperation with local government, and the project proponent will plan CSR activities regarding health care. |
| Occupational health and safety | С | Minor impact on the working conditions of workers of the production area is expected. In addition, project proponent shall compline with the related labor laws under the supervision Social Security Board (SSB). |
| Community health and safety | D | Impacts on community health and safety are expected due to influx of workers and increase of vehicle traffic. |
| Emergency Risk | | |
| Flood risk | D | Flood risks such as heavy rain, cyclone, and high tide are expected to be Hlaing Tharyar Township. |
| Fire risk | B | There is a possibility for the risk of fire to increase due to economic activities. Polly HK laundry service factory shall install and maintain an effective fire alarm system and firefighting system in the operation building. |
| Earthquake | D | There is a possibility that buildings and structures in the industrial area would collapse if earthquake occurs. |
| Other | | · |
| Global warming | С | Emission of greenhouse gases (GHGs) would be generated from machineries, vehicle traffic, generator operation, etc. |

5.4. PROPOSED ENVIRONEMTAL MITIGATION MEASURE

This section presents the proposed mitigation measures that factory will adopt to facilitate the management and control of potential adverse impacts associated with the project activities of Polly HK laundry service factory. The proposed mitigation measures are verified to be practical and implementable in operational conditions. Mitigation measures will be taken into the result of evaluation such that potential adverse impacts are reduced to as low as reasonably practical. The mitigation measures are presented for each phase in Table 5-5.

| Potential Impact | Identified Risk | Mitigation Measures | |
|---------------------------------------|---|--|--|
| Air pollution and Dust emission | Dust and exhaust atmospheric emission i.e. emission of SO ₂ , NO _x , CO, PM, etc. occur due to the stack fas of generator and vehicle movement | Stack gas emission level can be controlled by using generator with low NO_x technology Ensuring vehicles and generators are well maintained. The factory ensures that workers wear masks during working in dusty area. | |
| Water Pollution | Dispose of oil used for maintenance of machines Sewerage discharge | Regular check and maintain the drainage system in the factory compound Regular check and maintain wastewater treatment plant and discharged wastewater quality testing by laboratory every six month. (Complied NEQ guideline) | |
| Noise Pollution | Noise can generate from vehicle movement and especially from the operation of generator, compressor and other vibration machine. | Use of Personal Protective Equipment (PPE) like ear plug/ear muff in the noisy workplace like generator area. | |
| Waste Disposal | Improper management of solid waste will cause the adverse effect | Disposal of solid sewage waste in own septic tank following the waste management plan. Solid waste need to collect into storage and handed over to YCDC. Medical waste generated by the factory clinic is handed over to local hospital. | |
| Health and safety | Risks of infectious disease such as Malaria, Dengue, Tuberculosis, Hepatitis, Cholera | Create safety condition for work places Educate and train workers for good working practice, good safety practice and good house-keeping practice Prevent and avoid accidents at work places Use eye protection and impermeable gloves as protective equipment while handling the hazardous materials. Educate and train them for health education and workers in First Aid training Provide first aid box with medicines and drugs comprising anti-malaria, anti-cholera and anti-toxicant. The workplace must be hygiene with adequate facilities provide for cleaning food, utensils and equipment. | |

| Table 5-5 | Proposed mitigation measures with the factory's operation phase | |
|-----------|---|--|
| | | |

| Potential Impact | Identified Risk | Mitigation Measures |
|---------------------|-----------------|--|
| | | Employees who are directly involved in the production process should not work while affected by infectious diseases. |
| | | Factory shall has a dispensary run by a certified nurse. |
| | | Conduct annual medical checkup for current staffs. |
| | | A qualified medical doctor shall be appointed to perform medical checkups. |
| | | Reporting of occupational incidents |

6. PUBLIC CONSULTATION

6.1. PUBLIC CONSULTATION PROCESS

Public participation can be considered as the required element of the EMP process. In this study various stakeholder's participation were made.

On 26, December 2018, a public consultation and disclosure ceremony was held at the proposed project site of Polly HK Factory, Kanaung Hall, Shwe Lin Ban Industrial Zone Committee Office in order to disclose the project information to the following personnel:

- Institutions (Local or Government Authorities at Hlaing Tharyar Township)
- Project Affected Persons at proposed factory site
- Interested persons (Adjacent Factory)

It is aimed at disclosing the findings of environmental and social studies and the likely impacts upon them as well as mitigation and monitoring schemes to remediate the impacts caused by the project activities. It is also aimed at receiving recommendations, feedbacks upon the studies. Presentation activity photos of public hearing and consultation, ceremony is shown in Figure 6-1.

Agenda of the public hearing consultation meeting was held according to the following program:

- Opening of the meeting
- Presentation of EMP report study for production of Polly HK laundry service Factory
- Recommendation and suggestion by Attendees
- Closing of the meeting

6.2. RECOMMEND SUGGESTION AND COMMENT

After the presentation, the floor opened for questions and answers. Most of government stakeholders are suggested for good monitoring measure during operation.

Daw Khin Ohnmar Soe, Environmental Conservation Department;

- Kind of chemical usage process are described in main report
- Factory location map and layout map are described detail in the main report
- To directly inform the Health department for the case of infectious disease
- Nurse and clinic provides for the emergence case of workers in the factory

U Kyaw Kyaw, YCDC (Environmental and Cleaning Department);

- To maintain the ventilation system of the factory building
- To prepare the firefighting plan and firefighting training

POLLY HK (MYANMAR) CO., LTD.



Figure 6-1 Public consultation meeting

6.3. INCLUDING IMPLEMENTATION PLANS

Nurse and clinic provides for the emergence case of workers and prepare the firefighting plan and firefighting training in the factory.

7. ENVIRONMENTAL MANAGEMENT PLAN

7.1. OBJECTIVE OF ENVIRONMENTAL MANAGEMENT PLAN

The objective of the environmental management is to ensure potential environmental issues are managed by proper mitigation measures in compliance with the relevant laws and regulations stipulated by national authorities. Environmental management is based on the basic principles of management known as the P-D-C-A cycle (Figure 7-1). Environmental management consists of four related tasks as described below:

• Plan (P) - What need to be done

Mitigation measures for the potential environmental impacts of the factory such as air emission, noise, solid waste, wastewater and health and safety at work are described in this chapter. The Project Proponent will follow the plan for the mitigation measures according to the scheduled time.

• Do (D) - Implement the plan

The mitigation measures for the potential environmental impacts will be implemented appropriately by the Project Proponent as described in this chapter.

• Check (C) - Monitor and evaluate the results of implementation

The effectiveness of the mitigation measures will be monitored, evaluated and documented.

• Act (A) - Taking corrective actions to improve the results, if found inadequate

If nonconformities are noted with reference to the environmental monitoring benchmarks, corrective actions need to be planned to mitigate the existing environmental impacts.

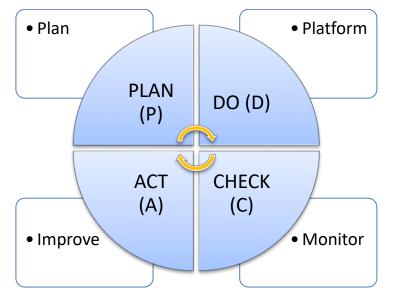


Figure 7-1 PDCA cycle

7.1.1. Institutional Requirement

The development of the proposed project will be managed by Polly HK (Myanmar) Co., Ltd. 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 (EMoP) 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.

7.2. RESPONSIBILITIES OF THE ENVIRONMENTAL MANAGEMENT PLAN

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:

Polly HK (Myanmar) 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 Polly HK (Myanmar) Company Limited for EMP implementation facilities.

Environmental Conversation Department: 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.

7.2.1. 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;
- Record and provide a written report to the General manager and production team of nonconformances 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;

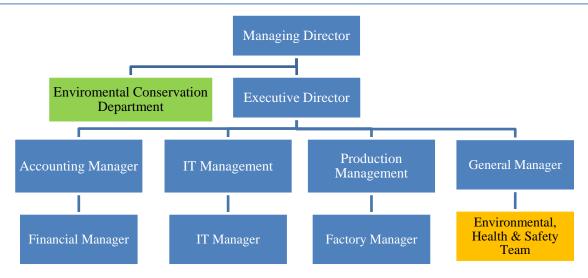


Figure 7-2 Organization Structure of Environmental Management

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

- Air Quality Management Plan
- Noise Management plan
- Solid Waste Management plan
- Liquid Waste Management Plan
- Fire Management Plan
- Occupational Safety and Health Management Plan
- Hazardous Waste Management Plan
- Emergency Response and Management Plan
- Environmental Monitoring Schedule and Reporting
- Capacity Building and Training Plan
- Grievance Redness Mechanism (GRM)
- Corporate Social Responsibility (CSR) Plan

7.3. AIR QUALITY MANAGEMENT PLAN

This factory is operated garment laundry service for (CMP) garment factory. So, there has no emitted gas and dust. The assessment study cannot be need for air quality management plan.

7.4. NOISE MANAGEMENT PLAN

| Objectives: | To avoid nuisance noise to nearby residents generated from generator and other machineries. To comply with noise standard of National Environmental Quality (Emission) Guideline |
|----------------------------|---|
| Relevant government law | National Environmental Quality (Emission) Guidelines (2015) |

| and rule | | | | | |
|--------------------|--|------------------------------|--|--|--|
| Time Frame | Throughout the project life | | | | |
| Management Plan | Building noise insulated generator room and ensure satisfactory maintenance of relevant equipment Impose speed limit to track and vehicles at the transportation route. Provide sufficient personal protective equipment (PPE) at the work place All the related personnel will be provided proper training about the relevant issues and ensure PPE wear during working in noisy area. | | | | |
| Monitoring & | Frequency | Biannually | | | |
| Reporting | Monitoring Point | Two points in operation area | | | |
| | Parameters | Sound Decibel | | | |
| Estimated cost | 100,000 Kyats per year | | | | |
| Responsibility | HSE Manager or Environmental Management Team of Polly HK (Myanmar) Company Limited | | | | |

7.5. SOLID WASTE MANAGEMENT PLAN

| Objectives: | To minimize waste generation by developing strategies for the management and disposal of all waste in a manner that is sustainable and sensitive to the environment To comply government waste management policy | | | | | | |
|--|---|--|--|--|--|--|--|
| Relevant government law and rule | Yangon City Development Committee Law (2018), National Waste Managemen Strategy and Action Plan (Draft 2018) | | | | | | |
| Time Frame | Entire life spans of the factory operation | | | | | | |
| Management | Must be provides separate garbage bins at each building. | | | | | | |
| Plan | 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 & Reporting | Daily wastes have to be collected and hand over to YCDC waste collector The inventory record of waste disposal will be maintained as proof for proper management as designed | | | | | | |
| Estimated cost | 100,000 Kyats per month | | | | | | |
| Responsibility | Manager (HR) Responsible for overall site cleanliness and waste management Regular waste collection to minimize excessive waste storage | | | | | | |

7.6. LIQUID WASTE MANAGEMENT PLAN (WASTEWATER)

| Objectives: | To implementation plan for the management of liquid waste from 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 the factory operation |
| Management | Regular inspection and cleaning, oil traps, septic tank and adequate covers for all |

| Plan | storage and waste disposal areas can decrease these contaminations. Wastewater treatment plant WWTP installation regular check and cleaning WWTP | | | | | |
|----------------|--|--|--|--|--|--|
| Monitoring & | Frequency | Biannually | | | | |
| Reporting | Parameters | pH, Turbidity, Conductivity, Iron, Sulpahte, TSS, TDS, Manganese, COD, BOD, Cyanide, Copper, Zinc, Carbonate | | | | |
| | Proper maintenance of drainage and sewerage system will be conducted periodically | | | | | |
| Estimated cost | 1,000,000 Kyats per year | | | | | |
| Responsibility | Manager -To hire organization/independent third-party testing wastewater quality EHS officer-Monitor the condition of factory's drainage and sewerage system | | | | | |

7.7. FIRE MANAGEMENT PLAN

| Objectives: | To ensure that fire control practices are implemented on site to minimise the risk of fire from site operations and bush fires | | |
|---|--|--|--|
| Relevant government law and rule | Myanmar Fire Brigade Law 2015 | | |
| Time Frame | Entire life spans of proposed project operation | | |
| Management Plan | 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 fighting. | | |
| | 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 & Reporting | To check monthly Visual inspection, Firefighting equipment (fire extinguisher, firefighting hose, portable fire pumps, fire hose reels, fire monitor and firefighting nozzles) | | |
| Estimated cost 1,200,000 Kyats per year | | | |
| Responsibility HSE Manager, Operation Manager or Environmental Management Team of (Myanmar) Company Limited | | | |

7.8. 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 | 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 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. |
| Monitoring and | Weekly check fire extinguishers and water hydrant in position |
| Reporting | 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 Polly HK (Myanmar) Company Limited |

7.9. HAZARDOUS WASTE MANAGEMENT PLAN

| Objective | To avoid environmental pollution and adverse health effects due to i improper handling & disposal. | | | | | | |
|--|--|--|--|--|--|--|--|
| Relevant Government | > Yangon City Development Committee Law (2018), Explosive Ordnance | | | | | | |
| Law and Rule | Disposal Law (2018) | | | | | | |
| Time Frame > Entire life spans of proposed project | | | | | | | |
| Management Action | 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 faculty (e.g. DOWA and YCDC) | | | | | | |
| Monitoring and | Any hazardous materials purchased should include a Material Safety Data Sheet | | | | | | |
| Reporting | (MSDS), otherwise known as a Safety Data Sheet (SDS) or Product 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 Polly HK (Myanmar) | | | | | | |
| - | Company Limited | | | | | | |

7.10. EMERGENCY RESPONSE AND MANAGEMENT PLAN

| Objectives: | 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 | The Employment and Skill Development Law (August 2013), ILO guide to Myanmar Labour Law (2017) | | | | | | | |
| Time Frame | Entire life spans of the factory operation | | | | | | | |
| Management Plan | 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 | | | | | | | |
| | 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 & | Weekly check fire extinguishers and water hydrant in position | | | | | | | |
| Reporting | Daily inspect that all fire exist are open | | | | | | | |
| | Servicing fire extinguisher and records accidents, | | | | | | | |
| Estimated cost Approximately 1,500,000 Kyats per year | | | | | | | | |
| Responsibility | Manager and EHS officer Arrange firefighting training after every 3 months Responsible for fire control and response Monitoring daily danger warning and bans | | | | | | | |

7.11. ENVIRONMENTAL MONITORING SCHEDULE AND REPORTING

The EMoP cell members responsible may conduct daily, weekly or monthly general inspections of the project area and facilities. The objectives are to identify non-compliances to EMoP. is provided the environmental monitoring schedule for Polly HK (Myanmar) Company Limited. The

factory submits monitoring report to the Ministry not less frequently than every six (6) months, as provided in a schedule in the EMP,

| Issues | Parameter | Frequency | Area to be monitored | Monitoring cost | Responsible Organization |
|---------------------|---|--|--|-----------------|--|
| | | Oper | ation Phase | | |
| Common | Monitoring of mitigation measures | Yearly (3 years after operation) | The project | 2,500,000 Kyats | Environmental Management Team's Polly HK (Myanmar) Company Limited |
| Noise | Sound dBA | Biannually monitoring and reporting to ECD (first 3 years after operation) | Outdoor and Indoor of proposed project | 100,000 Kyats | Environmental Management Team's Polly HK (Myanmar) Company Limited |
| Waste Generation | Solid waste, Liquid waste and Hazardous waste | Weekly | Recycle house and waste house and at the factory office | 100,000 Kyats | Environmental Management Team's Polly HK (Myanmar) Company Limited |
| Fire Hazardous | Visual inspection, firefighting equipment | Monthly | At the factory | 500,000 Kyats | Environmental Management Team's Polly HK (Myanmar) Company Limited |
| Light Intensity | Illuminance | Monthly | At the production line | 20,000 Kyats | Environmental Management Team's Polly HK (Myanmar) Company Limited |
| | | Decomm | issioning Phase | | |
| Air Quality | TSP, PM _{2.5} , PM ₁₀ , SO ₂ , NO ₂ , O ₃ , CO | One time during this phase | One point in the production area | 500,000 Kyats | Land Owner & Environmental Management Team's Polly HK (Myanmar) Company Limited |
| Noise | Noise level in decibel (dBA) | One time during this phase | One points in demolishing area | 50,000 Kyats | Land Owner & Environmental Management Team's Polly HK (Myanmar) Company Limited |

 Table 7-1
 Environmental Monitoring Process

| Issues | Parameter | Frequency | Area to be monitored | Monitoring cost | Responsible Organization |
|----------------|--------------------------------|-----------|--------------------------------|-----------------|--|
| Rehabilitation | Recovering and Revegetation | | All decommissioning area | | Land Owner & Environmental Management Team's Polly HK (Myanmar) Company Limited |

7.12. 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;

7.12.1. 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.

7.12.2. 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

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

7.12.3. 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

7.12.4. 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
- Lockout/tag out policies
- Design specifications for storage of flammable materials

Severity reduction; policies, practices and procedures designed to reduce the spared 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

7.12.5. 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.

7.12.6. 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
- o Procedures for employees who must remain to operate critical equipment before evacuating
- o 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
 - 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 7-2 | American National Fire Fighting Association (NFFA) Standards |
|-----------|--|
|-----------|--|

| No. | Parameters | Proposed Capacity | Remark |
|-----|------------------------|--------------------|------------------|
| 1. | Fire water flow | 14 bars | |
| 2. | Deluging rate | 12.0 liters/m2/min | |
| 3. | Foam rate | 10.0 liters/m2/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

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.

7.12.7. Site Fire Control

- 4. Alert other people through fire alarm
- 5. If small, control using an extinguisher
- 6. Contact fire brigade if not under immediate control
- 7. Attend to human life in immediate danger
- 8. For electrical fires turn off power before fighting
- 9. 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
- 10. Obey all instructions
- 11. Proceed to an emergency evacuation area (Muster Point)

7.12.8. 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

7.12.9. Health and Safety Training Plan for Worker

Health and Safety Training plan currently used and provided in Polly HK (Myanmar) 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.

| 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 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 |

Table 7-3 Training Plan Used in Polly HK (Myanmar) Company Limited

7.13. 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 though Grievance Committee, which includes the responsible persons of Polly HK (Myanmar) Company Limited representative from Shwe Lin Ban Industrial Zone and representative from General Administration Department (Hlaing Thar Yar Township). Small issues will be solved at the Grievance Committee stage and other unsolved problems will be submitted to higher responsible authorities and finally the responsible person decided by the court in legal terms. The following diagram show steps of Grievance Redress Mechanism of Proposed Factory Project.

POLLY HK (MYANMAR) CO., LTD.

Environmental Management Plan

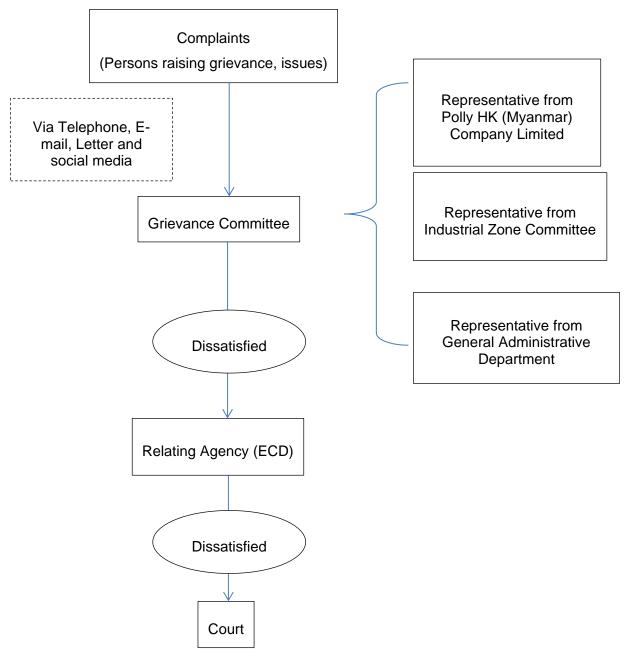


Figure 7-3 Grievance Redress Mechanism Flow Diagram

7.14. 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 Polly HK (Myanmar) Company Limited consists of three main sectors; Health, Education and Communities Development Sector. CSR activities are conducted in compliance with MIC's guideline for implementation of CSR program.

Polly HK (Myanmar) Company Limited has a plan to implement and donate 2 percent of the profit per year for Corporate Social Responsibility (CSR) and Employee Welfare Arrangement.

| Table 7-4 | CSR Plan | | | |
|--------------------------|---|---------------------|------------------------------|--|
| Area | Priority item | Contribution (%) | Estimated Cost (Kyats) | Detail targets |
| Health | Healthcare for employees and their family | 0.5 % | 1,500,000 | 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. |
| Education | Raising awareness education level and human right | 0.5 % | 7,000,000 | 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. |
| Community Development | Donation to local community | 1% | 1,500,000 | Donate to local charities with a worthy cause Actively participate in community events Encourage staff to participate, and to form a community engagement team to actively support community events Embedding understanding and consciousness about human rights issues among the employees Development of sexual harassment and power harassment (workplace bullying & harassment) prevention efforts |

25-Jan-22

8. CONCLUSION

Environmental Management Plan (EMP) has been prepared for Polly HK factory is located at Plot No. 301, Myay Taing Block No. 25, NaWaDay MinGyi Road, Shwe Lin Ban Industrial Zone, Hlaing Tharyar 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 garments 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.

9. **RECOMMENDATION**

This is recommendation 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.
- 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.

APPENDIX A Company Documents

| MPANY PROFILE | | | | |
|---|--|--|--|--|
| ACK TO PREVIOUS PAGE | | | | |
| mpany Name (English) | | ompany Name (Myanmar) | Registration Number 101016145 | Registration Date 12/10/2015 |
| mpany Type | | atus | Foreign Company | Small Company |
| vate Company Limited | | egistered | Yes | No |
| nual Return Due Date | | | | |
| /11/2022 | | | | |
| ncipal Activity | | | | |
| Other manufacturing | 5 | | | |
| | DRESSES OFFICERS | | | |
| Document No. | Form/Filing Type | | Filing Date | Effective Date |
| 23342690017 | AR - Annual Return | | 18/10/2021 | 18/10/2021 |
| 21772450017 | I-9D - Application to revoke suspension of co | mpany registration | 29/01/2021 | 31/01/2021 |
| 21771080011 | AR - Annual Return | | 29/01/2021 | 29/01/2021 |
| 14695320010 | I-9A - Notice of intent to suspend for failure to | to file annual return | 13/11/2019 | 13/11/2019 |
| 10625560018 | D-1 - Particulars of directors and secretary | | 22/10/2018 | 22/10/2018 |
| 10625380010 | C-3 - Change to share capital or register of m | embers | 22/10/2018 | 22/10/2018 |
| 10096520013 | B-1 - Application for re-registration of a priva | ate company limited by shares | 19/08/2018 | 19/08/2018 |
| ACK TO PREVIOUS PAGE mpany Name (English) DLLY HK (MYANMAR) mpany Type vate Company Limited nual Return Due Date /11/2022 | COMPANY LIMITED | mpany Name (Myanmar) atus gistered | Registration Number 101016145 Foreign Company Yes | Registration Date 12/10/2015 Small Company No |
| ncipal Activity - Other manufacturing | | | | |
| | | | | |
| | DRESSES OFFICERS | | | |
| Document No. | Form/Filing Type | | Filing Date | Effective Date |
| Document No. 23342690017 | Form/Filing Type AR - Annual Return | | 18/10/2021 | 18/10/2021 |
| Document No. 23342690017 21772450017 | Form/Filing Type AR - Annual Return I-9D - Application to revoke suspension of co | mpany registration | 18/10/2021 29/01/2021 | 18/10/2021 31/01/2021 |
| Document No. 23342690017 21772450017 21771080011 | Form/Filing Type AR - Annual Return I-9D - Application to revoke suspension of co AR - Annual Return | | 18/10/2021 29/01/2021 29/01/2021 | 18/10/2021 31/01/2021 29/01/2021 |
| Document No. 23342690017 21772450017 21771080011 14695320010 | Form/Filing Type AR - Annual Return I-9D - Application to revoke suspension of co AR - Annual Return I-9A - Notice of intent to suspend for failure | | 18/10/2021 29/01/2021 29/01/2021 13/11/2019 | 18/10/2021 31/01/2021 29/01/2021 13/11/2019 |
| Document No. 23342690017 21772450017 21771080011 14695320010 10625560018 | Form/Filing Type AR - Annual Return I-9D - Application to revoke suspension of co AR - Annual Return I-9A - Notice of intent to suspend for failure to D-1 - Particulars of directors and secretary | io file annual return | 18/10/2021 29/01/2021 29/01/2021 13/11/2019 22/10/2018 | 18/10/2021 31/01/2021 29/01/2021 13/11/2019 22/10/2018 |
| Document No. 23342690017 21772450017 21771080011 14695320010 | Form/Filing Type AR - Annual Return I-9D - Application to revoke suspension of co AR - Annual Return I-9A - Notice of intent to suspend for failure | to file annual return embers | 18/10/2021 29/01/2021 29/01/2021 13/11/2019 | 18/10/2021 31/01/2021 29/01/2021 13/11/2019 |

| npany Name (English) |) | Company Name (Myanmar) | Registration Number | Registration Date |
|---|--|--|--|--|
| LY HK (MYANMAR) | COMPANY LIMITED | | 101016145 | 12/10/2015 |
| npany Type | | Status | Foreign Company | Small Company |
| vate Company Limited | d by Shares | Registered | Yes | No |
| nual Return Due Date | | | | |
| 11/2022 | | | | |
| ncipal Activity | | | | |
| - Other manufacturing | 50 | | | |
| ING HISTORY AD | DDRESSES OFFICERS | | Filing Date | Effective Date |
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| ING HISTORY AD Document No. 23342690017 | ODRESSES OFFICERS Form/Filing Type AR - Annual Return | ion of company registration | 18/10/2021 | 18/10/2021 |
| ING HISTORY AD Document No. 23342690017 21772450017 2 | DDRESSES OFFICERS Form/Filing Type AR - Annual Return I-9D - Application to revoke suspens | | 18/10/2021 29/01/2021 | 18/10/2021 31/01/2021 |
| ING HISTORY AD Document No. 23342690017 21772450017 21771080011 | PDRESSES OFFICERS Form/Filing Type AR - Annual Return I-9D - Application to revoke suspens AR - Annual Return | r failure to file annual return | 18/10/2021 29/01/2021 29/01/2021 | 18/10/2021 31/01/2021 29/01/2021 |
| ING HISTORY AD Document No. 23342690017 21772450017 21771080011 14695320010 4 | DDRESSES OFFICERS Form/Filing Type AR - Annual Return I-9D - Application to revoke suspens AR - Annual Return I-9A - Notice of intent to suspend fo | r failure to file annual return cretary | 18/10/2021 29/01/2021 29/01/2021 13/11/2019 | 18/10/2021 31/01/2021 29/01/2021 13/11/2019 |

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| 22.9.1000 | အတည်ပြုမိန့် |
| | |
| CONTRACT AND | န့်အမှတ် ရကတ- ၀၄၅ /၂၀၁၈ ၂၀၁၈ ခုနှစ် ဧပြီလ ၁၁ ရ က် |
| | ၃န်တိုင်းဒေသကြီး ရင်းနှီးမြှုပ်နှံမှု ကော်မတီသည် မြန်မာနိုင်ငံ ရင်းနှီးမြှုပ်နှံမှု ဥပဒေ |
| ု ဂ်ခုခု ဂ်ခု ဂ်ခု | ဒ်မခွဲ (ဃ) အရ ဤအတည်ပြုမိန့်ကိုထုတ်ပေးလိုက်သည် - |
| (c) | ရင်းနှီးမြှုပ်နှံသူအမည် MR.SONGLIN GONG |
| (J) | နိုင်ငံသား CHINESE |
| (၃) | နေရဝ်လိစ်စာ 82AI GOO DONG YANG CITY, ZHEJIANG |
| | PROVINCE, PEOPLE'S REPUBLIC OF CHINA |
| (ç) | ပင်မအဖွဲ့အစည်းအမည်နှင့်လိပ်စာ |
| (9) | ဖွဲ့စည်းရာအရပ် |
| (G) | ရင်းနှီးမြှုပ်နှံသည့်လုပ်ငန်းအမျိုးအစား အထည်အမျိုးမျိုး နှင့် အဝတ်အထည် |
| | များကို လျှော်ဖွတ်သန့်စင်ခြင်း ဝန်ဆောင်မှုလုပ်ငန်း |
| (7) | ရင်းနှီးမြှုပ်နှံသည့်အရပ်ဒေသ(များ) မြေကွက်အမှတ်၃၀၁၊ မြေတိုင်းရပ်ကွက် |
| | အမှတ်၂၅၊ ရွှေလင်ပန်း စက်မှုစုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး |
| (0) | နိုင်ငံခြားမတည်ငွေရင်း ပမာဏ အမေရိကန်ဒေါ်လာ ၁.၀၀၀ သန်း |
| | |
| (e) | နိုင်ငံခြားမတည်ငွေရင်းယူဆောင်လာရမည့်ကာလ အတည်ပြုမိန့် ရရှိသည့် |
| | နေ့မှ ၁ နှစ် အတွင်း |
| (00) | စုစုပေါင်း မတည်ငွေရင်းပမာဏ(ကျ ပ်) အမေရိကန်ဒေါ်လာ ၁.၀၀၀ သန်းနှင့် |
| | ညီမျှသော မြန်မာကျပ်ငွေ |
| (၁၁) | တည်ဆောက်မှု/ပြင်ဆင်မှုကာလ ၁ နှစ် |
| (oj) | အတည်ပြုမိန့်သက်တမ်း ၃၀ နှစ် |
| - | ရင်းနှီးမြှုပ်နှံမှုပုံစံ ရာခိုင်နှုန်းပြည့် နိုင်ငံခြားရင်းနှီးမြှုပ်နှံမှု |
| (၃၄) | မြန်မာနိုင်ငံတွင် ဖွဲ့စည်းမည့် ကုမ္ပဏီအမည် POLLY HK (MYANMAR) |
| (09) | COMPANY LIMITED |
| | |
| | |
| | |



ဥက္ကဋိ ဥက္ကဋိ ရန်ကုန်တိုင်းဒေသကြီးရင်းနှီးမြှုပ်နှံမှုကော်မတီ္န



ကုမ္ပဏီမှတ်ပုံတင်လက်မှတ် Certificate of Incorporation

POLLY HK (MYANMAR) COMPANY LIMITED Company Registration No. 101016145

မြန်မာနိုင်ငံကုမ္ပဏီများအက်ဥပဒေ ၁၉၁၄ ခုနှစ် အရ POLLY HK (MYANMAR) COMPANY LIMITED အား၂၀၁၅ ခုနှစ် အောက်တိုဘာလ ၁၂ ရက်နေ့တွင် အစုရှယ်ယာအားဖြင့် တာဝန်ကန့်သတ်ထား သည့် အများနှင့်မသက်ဆိုင်သောကုမ္ပဏီ အဖြစ် ဖွဲ့စည်းမှတ်ပုံတင်ခွင့် ပြုလိုက်သည်။

This is to certify that **POLLY HK (MYANMAR) COMPANY LIMITED** was incorporated under the Myanmar Companies Act 1914 on 12 October 2015 as a Private Company Limited by Shares.

ကုမ္ပဏီမှတ်ပုံတင်အရာရှိ Registrar of Companies ရင်းနှီးမြှုပ်နှံမှုနှင့်ကုမ္ပဏီများညွှန်ကြားမှုဦးစီးဌာန Directorate of Investment and Company Administration



Former Registration No. 580FC/2015-2016(YGN)

| The start of the | Form (5-B) |
|------------------|--|
| | THE REPUBLIC OF THE UNION OF MYANMAR |
| RICE | YANGON REGION INVESTMENT COMMITTEE 178 |
| | ENDORSEMENT 11-4-2018 |
| , er | ment No. YGN - 045 /2018 Date 11 April 2018 |
| Th | is endorsement is issued by Yangon Region Investment Committee |
| accordin | gto the section 25, sub-section (d) of the Myanmar Investment Law- |
| (1) | Name of Investor MR.SONGLIN GONG |
| (2) | Citizenship CHINESE |
| (3) | Residence Address 82AI GOO DONG YANG CITY, ZHEJIANG |
| | PROVINCE, PEOPLE'S REPUBLIC OF CHINA |
| (4) | Name and Address of Principal Organization |
| (5) | Place of Incorporation |
| (6) | Type of business LAUNDRY SERVICE FOR VARIOUS TYPE |
| | OF CLOTHS AND WEARS |
| (7) | Place(s) of investment Project PLOT NO. 301, MYAY TAING |
| | BLOCK NO. 25, SHWE LIN PAN INDUSTRIAL ZONE, HLAING |
| | THAR YAR TOWNSHIP, YANGON REGION |
| (8) | Amount of Foreign Capital US\$ 1.000 MILLION |
| (9) | Period for Foreign Capital to be brought in WITHIN ONE YEAR |
| | FROM THE DATE OF ISSUANCE OF ENDORSEMENT |
| (10) | Total Amount of Capital (Kyat) EQUIVALENT IN KYAT OF |
| | US\$ 1.000 MILLION |
| (11) | Construction/ Preparation Period 1 YEAR |
| (12) | Validity of Endorsement 30 (THIRTY) YEARS |
| (13) | Form of Investment WHOLLY FOREIGN OWNED |
| (14) | Name of Company Incorporated in Myanmar POLLY HK |
| | (MYANMAR) COMPANY LIMITED |



Chairman Yangon Region Investment Committee

APPENDIX B Detail Description and Drawing of Wastewater Treatment Plant

宝丽缅甸水洗有限公司污水处理工程

Polly HK (Myanmar) Co., Ltd.

Wastewater Treatment

Design Plan

Zhejiang Zhuojia Environment Co.,Ltd.

2018 June

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- 8.2 Engineering benefit
- 9. Conclusion and Suggestion
 - 9.1 Conclusion
 - 9.2 Suggestion

1. Design basis, principle and scope

1.1 design principles

- The wastewater treatment system with simple Process, mature technology, low energy consumption and high efficiency is used.
- Combined with the characteristics of water and water quality of enterprises. After mixing production wastewater with domestic wastewater, the operation cost can be reduced greatly while organic pollution is degraded.
- use continuous process

1.2 Design scope

Technical documents such as design instructions, main drawings, equipment selection, investment estimation, operation costs, etc. for the major specialties of technology, civil engineering, machinery, electrical appliances, instrumentation control between the inlet and the standardized discharge port of the wastewater treatment system.

Workshop waste water, domestic waste water, clean sewage to sewage treatment station access pipes, ditches, power supply, tap water and standardized discharge outlets and after the discharge pipes shall be separately determined.

2. Design scale, water quality and discharge standard

2.1 design scale

According to the information and requirements provided by enterprises, the scale of wastewater treatment is:

Processing capacity Q = 1200 m3/d

2.2 Design of influent water quality

According to the information provided by the owner, the influent water quality of the project is determined as follows:

2.3 Discharge standard

Discharge water is implemented in the first level standard of the comprehensive discharge standard for sewage (GB8978-1996).

| Sr.no | Pollutants | First level standard | Third level standard |
|-------|------------------------------|----------------------|----------------------|
| 1 | РН | 6~9 | 6~9 |
| 2 | SS | \leq 70mg/L | \leq 400mg/L |
| 3 | $\mathrm{COD}_{\mathrm{Cr}}$ | \leq 100mg/L | \leq 500mg/L |
| 4 | NH_3 | \leq 15mg/L | \leq 45mg/L |
| 5 | Color | <u>≤40</u> | ≤80 倍 |

Sewage comprehensive standard (GB8978-1996)

3. Process principle, technology and process flow

3.1 Process principle

The basic principle of wastewater treatment is to separate pollutants from wastewater by physical, chemical and microbial methods, or change the chemical structure, or decompose into low molecular mineralized substances, so as to reduce the content of organic or inorganic substances in wastewater.

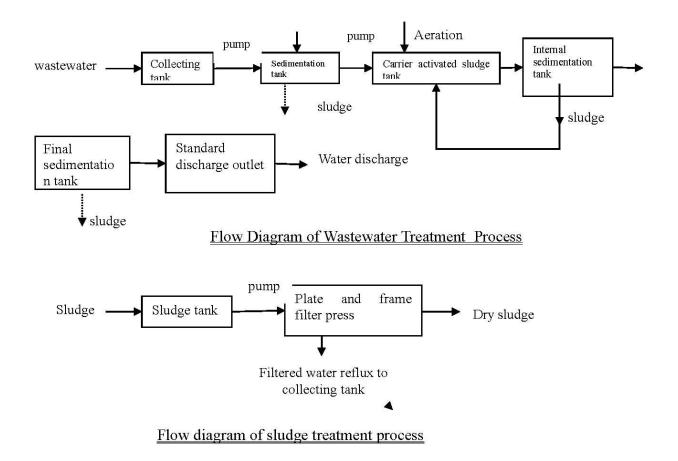
The sewage contains alkali, oxidant, surfactant, dye, slurry, staple fiber and so on.

The sewage has low COD, slightly alkaline PH value, low chroma of woven fabrics, medium chroma of fabric, mainly water insoluble dye particles, easy to decolorize.

Domestic wastewater contains soluble organic matter and ammonia. It is easy to be decomposed by microorganisms, and eventually produces CO2, H2O, N2, a small number of organic matter and microorganisms. It can reduce the pollutants in the discharged water through the form of gas or solid discharges, so that it can be purified.

3.2 Process Flow

According to the characteristics of wastewater, combined with the company's processing technology, the process is to be followed:



3.3 Process flow description

(1) all sewage enters the pool and is mixed and homogenized.

(2) Flocculants and coagulants are added to the reaction tank. The suitable size of alum is generated by electric neutralization and flow into the settling area. After a certain retention time, solid-liquid separation is achieved. The supernatant water is basically colorless and contains a small amount of organic matter. Into subsequent microbial treatment. The lower sludge is regularly discharged to the sludge tank.

(3) a large number of microorganisms are adsorbed on special carriers in the activated sludge tank. In sufficient oxygen supply, microorganisms decompose organic matter in sewage. Synthesis of bacteria and generation of CO2 and H2O to purify water. The surplus activated sludge is regularly discharged to the sludge tank.

(4) the internal settling tank is used for microorganism capture and concentration. And returned to the activated sludge tank head of the carrier.

3.4 Process characteristics

1. After the unified collection of wastewater treatment, to achieve homogeneous wastewater, reduce water quality fluctuations, convenient operation management.

2. Good water quality.

3. System stability is good.

| 4. Process design parameters and description 4.1 Main structure Design parameters (1) Collection Pool Effective Volume: V=100m3 Structure: Underground Type steel concrete |
|--|
| (2) A sinking pond Effective Area: S=35m2 Structure: Ground-type steel concrete Built-in mud-drain bucket |
| (3) Carrier activated sludge tank Effective Volume: V=150m3 Structure: Ground-type steel concrete Built-in micro-porous aeration pipe |
| (4) Internal sedimentation tankEffective Area: S=24m2Structure: Ground-type steel concrete |

(5) Final sedimentation tank Effective Area: S=24m2 Structure: steel concrete on the ground

(6) Sludge tank Effective Volume: V=100m3Structure: Underground Type steel concrete List of Major Construction

4.2 The list of standard epuipment

| Sr.no | Name | Volume | Structure | Note |
|-------|-------------------------------|-------------------|-------------------|-------------|
| Ĩ. | Collection Pool | 100m ³ | Steel concrete | Underground |
| 2 | Sedimentation tank | 35m ² | Steel concrete | Over ground |
| 3 | Carrier activated sludge tank | 150m ³ | Steel concrete | Over ground |
| 4 | Internal sedimentation tank | 24m ² | Steel concrete | Over ground |

| 5 | Final sedimentation | 24m ² | Steel concrete | Over ground |
|---|---------------------|-------------------|-------------------|--------------|
| 6 | Sludge tank | 100m ² | Steel concrete | Under ground |

| Sr.no | Name | Parameters | Number | Note |
|-------|------------------------------------|---|--------|-----------------------------------|
| 1 | Water lift pump | 10m ³ /h.25m ³ /h | 2 | 一用一备 |
| 2 | Recoil pump | 25m ³ /h | 3 | |
| 3 | Reflux | 10m³/h | 2 | 一用一备 |
| 4 | Plate and frame filter press | 100/1000 | 1 set | Air compressor and diaphragm pump |
| 5 | Fan | RSR100 | 2 | 一用一备 |

| Sr.no | Name | Main parameter | Number | Note |
|-------|-------------------------------|-------------------------------|------------------|----------------------------|
| 1 | Micro-porous aeration pipe | Φ90 | 100m | Activated tank |
| 2 | Perforated aeration pipe | DN50/25 | 50/260m | Collecting ,sludge tank |
| 3 | Dosing tank | $3m^2$ | 2sets | |
| 4 | Carrier | 100 目 | 10m ³ | Activated tank |
| 5 | Pipe valve | Various specificatio ns | A batch | |

5. Engineering Design

This project needs to do well in sewage diversion and sewage collection. Sewage and clean water collection are concentrated in one area.

5.1 Plane position

The area of the system is about 600 sq meter

Main structures and equipment layout

- The layout of sewage treatment works and facilities is clear and the layout is reasonable.
- The structure (building) is arranged according to the direction of the flow. The common wall between the pool and the pool is used as much as possible to save the cost. The connecting pipes between the units are arranged with the shortest path.

The sewage discharged from the gathering tank is up to standard and the water is directly discharged by gravity.

The sludge discharged from the facilities of each unit entered the sludge tank by differential pressure.

5.2 Piping layout

The pipeline as brief as possible, reduce unnecessary turning and crossing, as far as possible to reduce the pipeline layout, and anti-corrosion treatment, make the pipeline layout reasonable and beautiful, do not interfere with the operation of transport, each processing unit is arranged on the ATC for inspection.

6. Civil Design

6.1 Design basis

- Technical condition information
- Regional geological survey report for Engineering Construction -- to be mentioned
- About existing codes, regulations and local laws

The basic facts of civil engineering

The civil design is mainly composed of : grille wells, collecting pool, treating tank, sludge tank, equipment foundations ,etc.

6.2 Structure Design

This project is mostly a reservoir structure, its waterproof and impermeability requirements are strict, the use of steel concrete structure, material selection, may consider the use of additives to compensate for concrete solidification caused by shrinkage, dry crack, improve the density of concrete and impermeability.

The concrete label is generally as follows: cushion C10, subject C20, C25. Anti-seepage label: According to the water pressure design wall thickness to determine, the general S6 steel bar, select the principle of "fine and dense", in order to facilitate the anti-seepage effect.

7. Electrical Design

7.1 Scope of design

The design scope of this project is the distribution control of all power equipment and the lighting system of structure in the boundary area of sewage treatment station, without considering the influence of sewage treatment equipment capacity on the high and low voltage distribution facilities in the plant.

7.2. Power Supply and Distribution

The power load grade of this project is three-level, the power supply voltage is 380/220V, using a single power supply mode, the power cable is introduced from the existing plant substation sewage treatment power control cabinet.

The lighting power supply of this project is connected to the lighting distribution box by the power control cabinet, and then the circuit is divided to supply each individual illumination.

There are not many power equipment in this project. In order to save investment, there is no centralized control room, and the power equipment are field distribution control.

1. The power control cabinet is set up in the power room to operate and control the blower, sewage pump and solvent system.

2. In the sludge dewatering field, an electric control box is installed to control the sludge dewatering system.

All electric devices are manually controlled, and buttons are controlled near the scene control box.

Electric energy measurement: Installing a watt-hour meter in a power control cabinet to measure the electricity consumption of a wastewater treatment system so that enterprises can make cost statistics and accounting.

7.3 Summary of electricity load

The total installed capacity of the project is 26.55kw, the running load is 21.05kw, the two class runs, and the total power consumption is 209kwh/d.

| Sr.no | Equipment name | Numb er | Capacity unit (kw) | Total Capacity (kw) | Used capacity (kw) | Time | Power consumption |
|-------|------------------------|------------|--------------------------|---------------------------|--------------------------|-------|----------------------|
| 1 | Water lift pump | 2 | 0.75/2.2 | 2.95 | 2.2 | 20hr | 40kwh |
| 2 | Recoil pump | 3 | 2.2 | 6.6 | 6.6 | 2h/d | 12kwh |
| 3 | Reflux pump | 2 | 0.75 | 1.5 | 0.75 | 24h/d | 16kwh |
| 4 | Plate and frame filter | Set | 7.5 | 7.5 | 7.5 | 8h/d | 55kwh |

| | press | | | | | | |
|-------|-------|---|---|-------|-------|-------|--------|
| 5 | Fan | 2 | 4 | 8 | 4 | 24h/d | 86kwh |
| Total | | | | 26.55 | 21.05 | | 209kwh |

7.4. Protective grounding and cable laying

This project adopts electrical protection zero connection system. Repeated grounding is arranged at the power control cabinet, and the grounding resistance is not more than 10Ω . Reliable grounding should be ensured for metal enclosure of power equipment and installation of lamps and lanterns.

The cable laying of this project, automatic control cabinet to the control box of each electric point and power design cable are all directly buried through galvanized steel pipe.

Indoor lighting is buried by wire conduit, and outdoor lighting is buried by galvanized steel pipe.

8. Technical indicators and engineering benefits

| Index Item | | CODcr (mg/l) | РН | NH3-N (mg/1) | SS (mg/l) | Color |
|-----------------|-------------------|-----------------|-----|-----------------|--------------|-------|
| Wastewater trea | ıtment tank | < 300 | ≤9 | ≤15 | ≤200 | ≤100 |
| Sedimentation | Discharge | 180 | 7-8 | | | 40 |
| tank | Remove rate | 40% | | | | |
| Final | Discharge rate | 60-90 | 7-8 | 10 | 60 | 30 |
| sedimentation | Remove rate | 50% | | | | |
| National st | andard | 100 | 6-9 | 15 | 70 | 40 |

8.1 Expected processing effect

8.2 Engineering benefit

- The total amount of pollutants CODcr before treatment 4.95 tons / year in average.
- The total amount of CODcr emission after treatment is 1.65 tons / year.
- CODcr removal capacity of 3.3 tons / year.

- CODer removal rate is greater than 67%.
- All other indicators of discharge wastewater meet the first grade standard.
- Wastewater quality indicators meet the discharge standards, reducing the environmental capacity load, creating a certain environmental benefits. It has created good aftereffect for the sustainable development of enterprises.

9. Conclusion and Suggestion

9.1 Conclusion

According to the characteristics of water quality, the sewage is collected centrally, homogenized and even in the regulating pool, and then treated uniformly, which is convenient for management and operation.

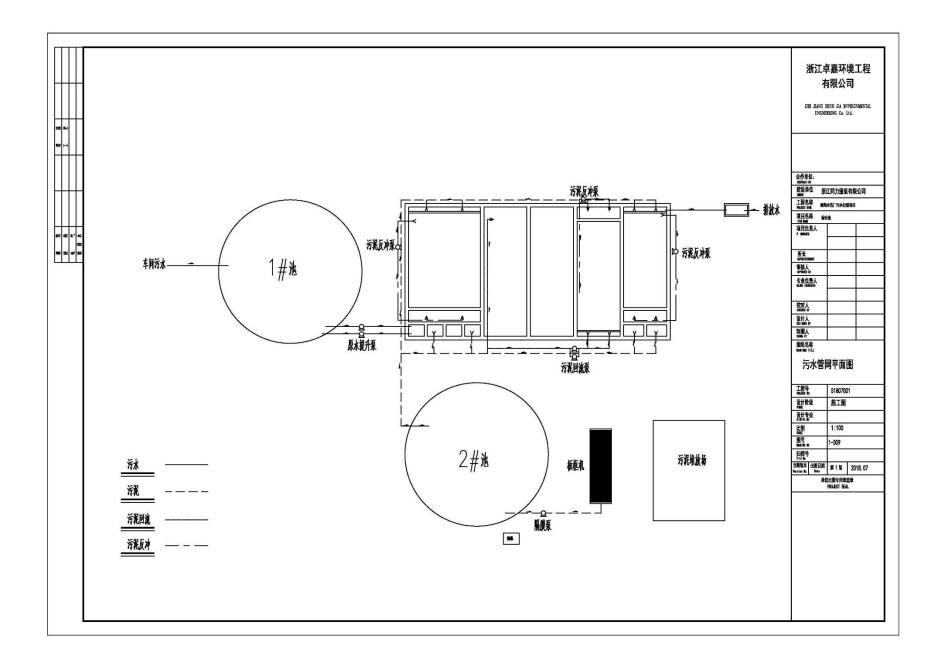
Physicochemical + biochemical treatment process was adopted.

Adopt suitable automatic control system to simplify operation management. The technology has the characteristics of maturity, stable treatment effect and moderate running cost. Most of the pollutants in the wastewater are converted into carbon dioxide, nitrogen, water and some semi-solid sludge by the treatment system.

9.2 Suggestion

After the completion of the wastewater treatment system, enterprises should strengthen two aspects of management. One is the management of the source of pollutants. All sections of the workshop should be strictly operated according to the production process to prevent the running, leaking, dripping and leakage of raw and auxiliary materials. This not only wastes raw materials, but also increases the cost of products, and brings serious adverse consequences to the subsequent treatment. The second is to improve the environmental ethics and operational responsibility of the sewage treatment operators to ensure the efficiency of the whole system.

In production, we should adopt technological reform, do a good job in cleaning and diversion, do a good job in all aspects of cleaner production, and ensure that wastewater treatment meets the standards.



APPENDIX C Wastewater Quality Result



ပတ်ဝန်းကျင်ရေးရာဓာတ်ခွဲခန်း





စိမ်းလန်းအမိမြေဖွံ့ဖြိုးတိုးတက်ရေးအသင်း (Advancing Life and Regenerating Motherland, ALARM)

Reference Number/ စာအမှတ်: EL-R / 02727

Date / နေ့စွဲ: 5 November, 2018

Laboratory Analysis Report /ဓာတ်ခွဲစစ်ဆေးမှုအစီအရင်ခံစာ

Sample Profileနမူနာရာဇဝင်

| နမူနာအမည် /Sample Name | Wastewater | နမူနာအမှတ်/ Sample ID | 431 | 17 |
|--|---|--|------------|---------|
| နေရာ (မြို့နယ်) Location (Township) | Shwe Lin Ban Industrial Zone, Hlaingtharyar Township | လတ္တီတွဒ် Latitude | - | |
| နေရာ (တိုင်း/ပြည်နယ်) Location (Division/State) | Yangon | လောင်ဂျီတွဒ် Longitude | - | |
| ေးပို့သူအမည် Sender Name | Polly HK | နမူနာကောက်ယူချိန် (နေ့၊ နာရီ) Sampling Time (Date, Time) | 30.10.2018 | - |
| အဖွဲ့အစည်းOrganisation | monalus (| li distormonel .gi | I | |
| ဆက်သွယ်ရန် Contact | 09421137569 [69130] | နမူနာရောက်ရှိချိန် (နေ့၊ နာရီ) Arriving Time (Date, Time) | 30.10.2018 | 2:22 pm |

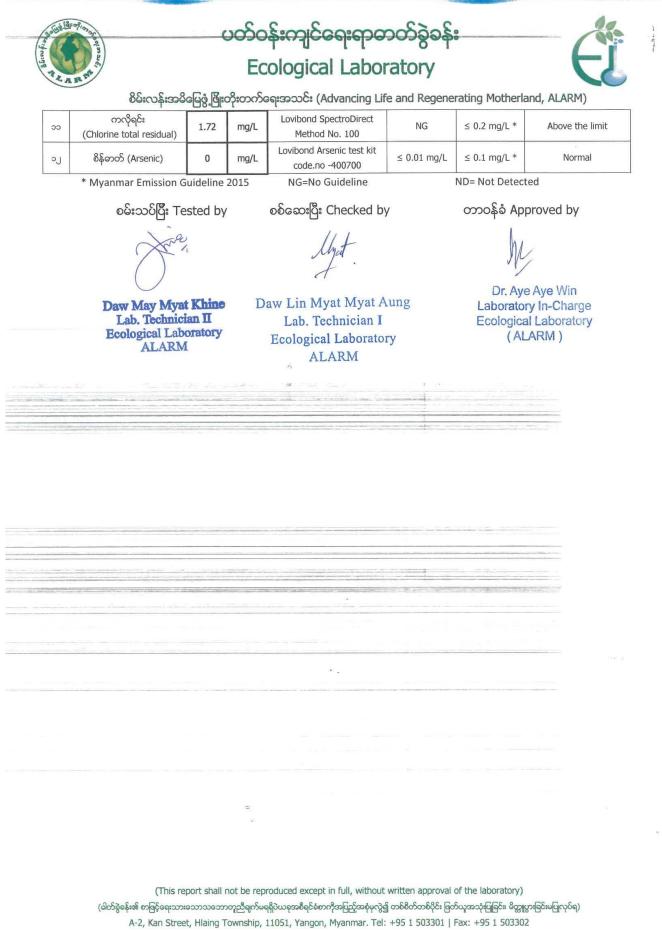
(This laboratory analysis report is based solely on the sample submitted by the customer) (ဤဓာတ်ခွဲစစ်ဆေးမှုအစီရင်ခံစာသည် ပေးပို့သူမုပို့ဆောင်ခဲ့သည့်နမူနာကိုသာအခြေခံထားပါသည်။)

Analysis Results စမ်းသပ်ချက်အဖြေ

| စဉ် Sr. | အရည်အဝသွေးညွှန်းကိန်း Quality Parameter | ရလဒ် အဖ | ဖ Results | နည်းစဉ် Method | စံသတ်မှတ်ချက် Drinking Standard | စွန့်ရေ စံနှုန်း Effluent Standard | မှတ်ချက် Remarks |
|------------|---|---------|-----------|---|---------------------------------------|--|---------------------|
| с | ချဉ်ဖန်ကိန်း (pH) | 7 | .3 | pH meters | 6.5 - 8.5 | 6.0 - 9.0 * | Normal |
| J | အပူချိန် (Temperature) | 23 | °C | Estimated by Eco-Lab with Jenway Dissolved Oxygen Meter (Model 970) | - | ±3°C | - |
| 9 | အရောင် (Colour) | 125 | HU | Lovibond SpectroDirect Method No. 203 | | | |
| 9 | နောက်ကိုမှု (Turbidity) | 8 | FAU | Lovibond SpectroDirect Method No. 385 | ≤10 FAU | NG | Clear |
| ອ | ပျော်ပင်အနည်များ (Total dissolved solids) | 350 | mg/L | Consort Multi-parameters Conductivity meter | NG | ≤2000 mg/l * | Normal |
| G | ဆိုင်းကြွအနယ် (TSS) | 9 | mg/L | Lovibond SpectroDirect Method No. 383 | NG | ≤50 mg/L * | Normal |
| ŋ | စုပေါင်းအနည် (Total Solids) | 359 | mg/L | Lovibond SpectroDirect Method No. 383 | - | - | - |
| ର | အောက်ဆီဂျင် ပျော်ဝင်မှု (Dissolved Oxygen) | 7.24 | mg/L | Jenway Dissolved Oxygen Meter (Model 970) | ≥ 3 mg/L | NG | Normal |
| C | ဇီဝဆိုင်ရာ အောက်ဆီဂျင်လိုအပ်ချက် (BOD₅) | 46 | mg/L | Estimated by Eco-Lab with Jenway Dissolved Oxygen Meter (Model 970) | ≤ 3 mg/L | ≤ 50 mg/L * | Above DW limit |
| 00 | ဓာတုဆိုင်ရာ အောက်ဆီဂျင်လိုအပ်ချက် (COD) | 95 | mg/L | Lovibond SpectroDirect Method No. 130, 131, 132 | NG | ≤ 250 mg/L * | Normal |

(This report shall not be reproduced except in full, without written approval of the laboratory) (ဓါတ်ခွဲနေး၏ စာဖြင့်ရေးသားသောသဘောတူညီရက်မရှိပဲယခုအစီရင်ခံစာကိုအပြည့်အစုံမှလွဲ၍ တစ်စိတ်တစ်ဂိုင်း ဖြတ်ယူအသုံးပြုရြင်း၊ ဖိတ္တူပွားခြင်းမပြုလုပ်ရ)

(ခတ်ခွန်း၏ စာဖြင့်ရေးသားသောသဘောတိုည်ရက်မရှေပယ်စုံအရေင်စောကိုအပြည့်အစုံမှင့်လို့၍ တစ်စတ်ဘစ်ပိုင်း ဖြတ်ယူအသုံးပြူရင်း၊ စတ္တူစွားမြင်းမပြုလုပ်ရဲ႔ A-2, Kan Street, Hlaing Township, 11051, Yangon, Myanmar. Tel: +95 1 503301 | Fax: +95 1 503302 Email: alarm.myanmar@gmail.com | website: www.myanmaraffairs.com



Email: alarm.myanmar@gmail.com | website: www.myanmaraffairs.com

APPENDIX D Public Consultation

Attendant List

| - | | | | | |
|----|--------------------|---------|------------------------------------|----------------|----------|
| Ś | စဉ် အမည် | epoq: | ဌာန / အဖွဲ့အစည်း | ဆက်သွယ်ရန် | လက်မှတ် |
| 3 | ଆ ଔଶାରୀ: ଓଡ଼ି ଓ ୫: | appende | المعدمة: مالوجه و على في معا: ومام | £2500102h-60 | the |
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| A | fu esterioras | contry: | Of you out | 21072 .10 | 2.15.02 |
| 8 | g.anreg: | cul eq: | to or cre | 01-645063 | 800.0018 |
| 9. | Dr. PHYD SU Li n- | TL | Offer Capping infrang. | 09 74962614B | SE |
| Ci | Q. Brandle. | amo | El guild work | 01.707850 | g |
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| 4 Stratuzali. 23 23 23 23 20 27 31 Sucrub en 61 20 20 20 20 | | g. O. mong | ပတ်တိုးကျတော်ႏွာသိမ်း ကူးမိုးဆိုး ၂၂ ရန်ကုန်တိုင်း ဒေသကြီး | 79838184 . po | in the |
| | | શ્વ- છે.છે. છાા | Eco 1 offing 6 con ges 26 of - 95 103 84 21 | 09-951038421 | R |
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| | | | | OP7738bbbb | 本 |
| 1. 0000 Boy S: | | Administration | | 96462825660 | pi, - |
| on Bomea | | 한 만은, 성1 1 | می مدر او رو می اغ | 8-4000 8384 S | C |
| | | | | | |



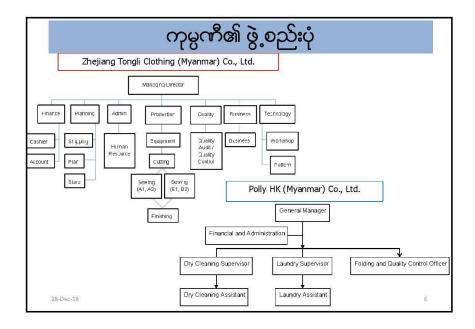




Zhejiang TongLi Clothing (Myanmar) Co., Ltd. And Polly HK (Myanmar) Co., Ltd.

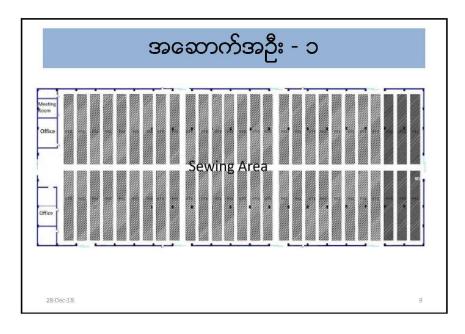
- Zhejiang Tongli သည် မြန်မာနိုင်ငံ ရင်နှီးမြှုပ်နှံမှုကော်မရှင်၏ ခွင့်ပြုမိန့်ကို ၂၀၁၅ ခုနှစ် အောက်တိုဘာလ ၁၄ ရက်နေ့ ရက်စွဲပါ (ခွင့်ပြုမိန့်အမှတ် ၁၀၂၄/၂၀၁၅) ရရှိခဲ့ပြီး ဖြစ်ပါသည်။
- Polly HK သည် ရင်းနှီးမြှုပ်နှံမှုလိုင်စင်ကို ၂၀၁၈ခုနှစ်၊ ဇန်နဝါရီလ၊ ၃ရက်နေ့တွင် (ထောက်ခံချက်အမှတ် ရကတ-၀၄၅/၂၀၁၈) ဖြင့် ရန်ကုန်တိုင်းဒေသကြီး ရင်းနှီးမြှုပ်နှံမှုကော်မတီမှ ရရှိပြီးဖြစ်ပါသည်။

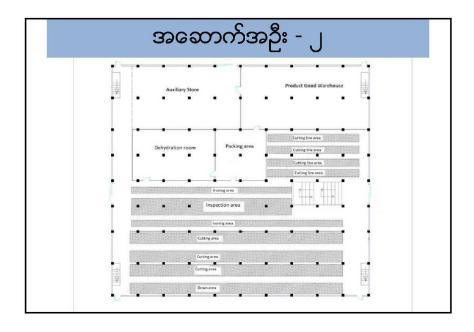
| လုပ်ငန်းအမျိုးအစား | (CMP) လဓစားစနစ်ဖြင့် အထည်အမျိုးမျိုးထုတ်လုပ်သည့်လုပ်ငန်း နှင့် အဝတ်လျှော်လုပ်ငန်း |
|---------------------------|--|
| ရင်းနှီးမြှပ်နံ့မှု | ၁၀၀ ရာခိုင်နှန်း နိုင်ငံခြားရင်းနှီမြုပ်နှံမှု |
| မြေအမျိုးအစား | စက်မှုနယ်မြေ |
| ဓမြစရိယာ | ၂.၇၁၃ စက |
| အထောက်အဦး | အဆောက်အဦး-၁ (ရုံးပိုင်းဆိုင်ရာနှင့်စက်ချုပ်လိုင်း)=၄၀၀′×၁၀၀′ အဆောက်အဦး-၂ (ပိတ်ဖျက်လိုင်း၊မီးပူတိုက်ခြင်း၊ထုတ်ပိုးခြင်း)=၂၀၀'×၁၀၀' အဆောက်အဦး-၃ (လျော်ဖွတ်ခြင်း)=၄၀၀′×၁၆၀′ |
| မြေငှားနှစ် | နှစ် ၆ဂ |
| ပြပြင်ရေးကာလ | ၁နစ် |
| လုပ်ငန်းလည်ပတ် သည့်ကာလ | နှစ် ၅၀ ရင်းနှီးမြှုပ်နှံမှု |
| စက်ရုံလိပ်စာ | မြေကွက်အမှတ်၃၀၁၊ မြေတိုင်းရပ်ကွက်အမှတ် ၂၅၊ နဝဒေးမင်းကြီးလမ်း၊ ရွှေလင်ပန်း စက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး |
| 28-Dec-18 | 5 |



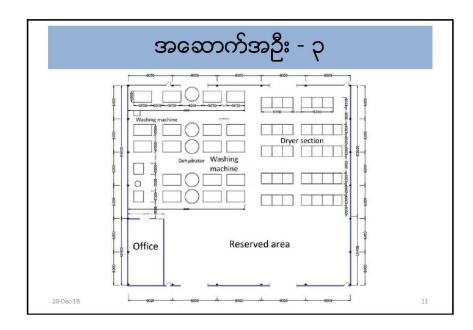




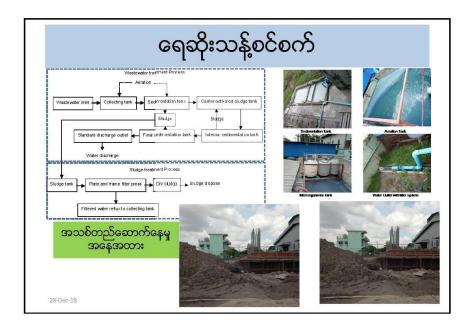




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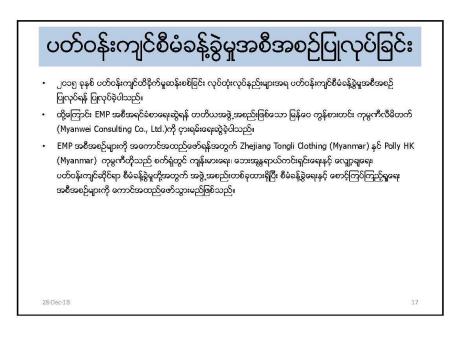


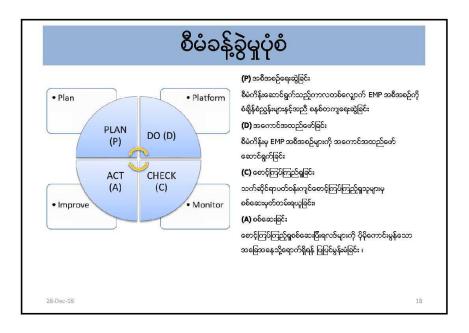
















| No | Location | Measure value(Lux) | Standard* | |
|----|------------------|-----------------------|-----------------------------------|--|
| 1 | Sewing line 1 | 404 | 400 | |
| 2 | Sewing line 2 | 412 | 400 | |
| | Sewing line 3 | 345 | 400 | |
| | Sewing line 4 | 341 | 400 | |
| ; | Sewing line 5 | 450 | 400 | |
| | Cutting line 1 | 448 | 400 | |
| | Cutting line 2 | 471 | 400 | |
| | Finishing line 1 | 521 | 400 | |
| | Finishing line 2 | 385 | 400 | |
| | QC | 1447 | 900 (except 1500 at audit tables) | |

| Parameter | Results | Standard | Unit | Remark |
|-------------------------|---------|----------|------|--------|
| рH | 7.3 | 6-9 | | Normal |
| Temperature | 23 | ±3 | °C | 2 |
| Colour | 125 | 101 | HU | |
| Turbidity | 8 | NG | FAU | Clear |
| Total Dissolved Solid | 350 | ≤ 2000 | mg/L | Normal |
| TSS | 9 | ≤ 50 | mg/L | Normal |
| Total Solids | 359 | 6,76 | mg/L | iā. |
| Dissolved Oxygen | 7.24 | NG | mg/L | × |
| BOD | 46 | ≤ 50 | mg/L | Normal |
| COD | 95 | ≤ 250 | mg/L | Normal |
| Arsenic | 0 | ≤ 0.1 | mg/L | Clear |
| Chlorine Total Residual | 1.72 | ≤ 0.2 | mg/L | Normal |



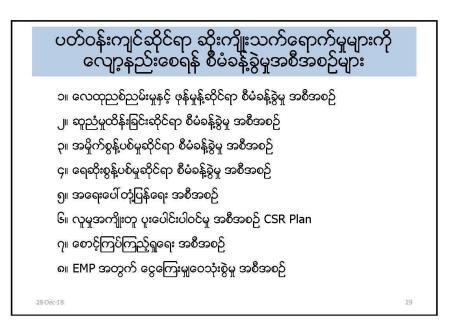
| | | ညစ်ညမ်းမှု |
|-----------------------|---------|--|
| လေထု အရည် အသွေး | | ဘွိုင်လာ၊ မီးစက်နှင့် စက်ရုံသုံးယာဉ်များကြောင့် ပတ်ဝန်းကျင်လေထုကို ထိခိုက်စေပါသည်။ ထွက်သော အခိုးအငွေ့များတွင် SO, NO, CO, VOC and PM များပါဝင်ခြင်းကြောင့် ပတ်ဝန်းကျင်ကို ထိခိုက်မှုဖြစ်စေပါသည်။ |
| ရေထုအရည် အသွေး | ່ຈ | စက်ရုံ၏ ကုန်ပစ္စည်းထုတ်လုပ်မှုမှ ရေဆိုးထွက်ရှိခြင်းမရှိ၊ ဝန်ထမ်းများအသုံးပြုပြီးသော ရေသာထွက်မည်ဖြစ်သောကြောင့်ပတ်ဝန်းကျင်အပေါ် ထိခိုက်မှုမရှိကြောင်းတွေ့ရှိခဲ့ပါသည်။ |
| ဆူညံမှု | | စက်ရုံအတွင်းဆူညံသံတိုင်းတာမှုရလဒ်များအရ အနည်းငယ်ဆူညံမှုရှိကြောင်းတွေ့ ရှိခဲ့ပါသည်။ ထိုဆူညံမှုမှာလဲ စက်ရုံအတွင်း လုပ်ငန်းခွင်အတွင်းသာဖြစ်ပြီး စက်ရုံပြင်ပ ပတ်ဝန်းကျင်ကိုမထိခိုက်နိုင်ပါ။ |
| စွန့်ပစ် အမှိုက် | | စက်ရံမှထွက်ရှိသောအမှိုက်မှာ ပိတ်ဖြတ်စများ၊ ပိတ်လိပ်ရာတွင်အသုံးပြုသော စက္ကူလိပ်များ၊ အထည်ထုတ်ဝိုးရာတွင် အသုံးပြုသော ပလက်စတစ်အိတ်၊ စက္ကူဖာ၊ အစရှိသည်တို့ဖြစ်ပါသည်။ |
| 28 Decem | ber, 21 | ဝန်ထမ်းများမှ ထွက်ရှိသော ရေသန့်ဘူးစွံ ပလက်စတစ်အိတ်၊ စက္ကူ၊ tissue၊ ။။ စားကြင်းစားကျန်၊ အစရိသော လသုံးအမိုက်များ ဖြစ်ပါသည်။ |

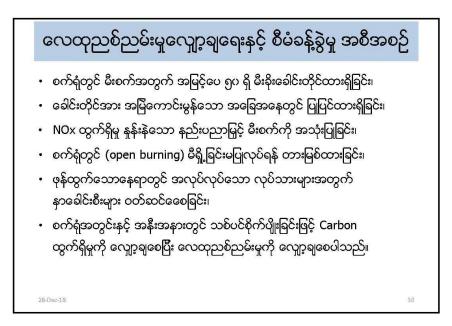
| ဝန်ထမ်းကျန်းမာရေးနှင့် အွန္တရာယ်ကင်းရှင်းရေး | | | | | |
|---|---|---|--|--|--|
| ကူးစက်ရောဂါ။ ဥပမာ ARI, Flu, etc. | n | ဖြစ်နိုင်ခြေနည်းပါးသော်လည်း လုပ်သားအင်အားဖြင့် လည်ပတ်သော စက်ရုံအမျိုးအစား ဖြစ်သောကြောင့် စက်ရုံတွင် ကျန်းမာရေး အသိပညာပေးမှုနှင့် ကျန်းမာရေး စောင့်ရှောက်မှုရှိရန် လိုအပ်ကြောင်း တွေ့ရှိခဲ့ပါသည်။ | | | |
| လုပ်ငန်းခွင်အွန္တရာယ် ကင်းရှင်းရေးနှင့် ကျန်းမာရေး | | ထိနိက်မှုနည်းသော လုပ်ငန်းအမျိုးအစားဖြစ်သော်လည်း လူမှုဖူလုံရေးမှာ ညွှန်ကြားထားသော စည်းမျဉ်းစည်းကမ်းများကို လိုက်နာရမည်ဖြစ်ပါသည်။ | | | |
| အနီးနားဝန်းကျင် အွန္ဒရာယ်ကင်းရှင်းရေးနှင့် ကျန်းမာရေး | ဃ | ထိခိုက်မှုတစ်စုံတရာမတွေ့ရပါ။ | | | |
| 28 December, 2018 | | 25 | | | |

| | I | လူမှုဘဝ အခြေအနေ |
|---|----|---|
| စားဝတ်နေရေးနှင့် စီပွားရေး | က+ | လုပ်သားပြည်သူ အလုပ်အကိုင်အခွင့်အလမ်းများ တိုးပွားလာခြင်း၊ သာမန်လုပ်သားဘဝမှ ကျွမ်းကျင်ဝန်ထမ်းဘဝသို့ တက်လှမ်းနိုင်ခြင်း အစရှိသည့်ကောင်းကျိုးများရရှိစေနိုင်သည်။ |
| ကလေးလုပ်သား | ဃ | စက်ရုံတွင် ကလေးလုပ်သားအသုံးပြုမှု လုံးဝမရှိပါ။ မြန်မာနိုင်ငံ၏ အလုပ်သမား ဉပဒေအရ ၁၈ နှစ် အထက်လုပ်သား ခန့်အပ်ခွင့်ရှိကြောင်းကိုလည်း သိရှိပြီးဖြစ်သည်။ ထို့ကြောင့် စက်ရုံတွင် ကလေးလုပ်သား ခန့်ထားခွင့်ကို တားမြစ်ထားပါသည်။ |
| ယဉ်ကျေးမှုနှင့် ရှေးဟောင်းအမွေ အနှစ် | ಬ | စက်ရုံသည် လှိုင်သာယာမြို့နယ်ရှိ ရွှေလင်ပန်းစက်မှုဇုန်တွင် တည်ရှိသောကြောင့် ထိနိုက်မှုတစ်စုံတစ်ရာ မတွေ့ရပါ။ |
| သဘာဝပတ်ဝန်း ကျင်အရြေအနေ 28 December, 2018 | ဃ | စက်ရုံသည် လှိုင်သာယာမြို့နယ်ရှိ ရွှေလင်ပန်း စက်မှုဇုန်တွင် တည်ရှိသောကြောင့် ထိခိုက်မှုတစ်စုံတစ်ရာ မတွေ့ရပါ။ 20 |

| | 9 | အရေးပေါ် အခြေအနေ |
|----------------------|----|--|
| မီးဘေးအွန္တရာယ် | ຈັ | မတော်တဆမူ၊ ပေ့ါ့ဆမူ၊ လျှပ်စစ်၊ အစရှိသည်တို့မ ဖြစ်ပေါ် စေနိုင်ပါသည်။ |
| ၜရက်ိဳးရေလျှံမှု | n | မှ ကြီးခြင်း၊ မုန်တိုင်းတိုက်ခြင်း စသည်တို့ ဖြစ်ပေါ် စေနိုင်ပါသည်။ |
| လျေင် | n | ငလျင်ဒါက်မခံနိုင်သော အဆောက်အဦတည်ဆောက်မှုပုံစံကြောင့် ထိခိုက်ပျက်စီးမှုဖြစ်စေနိုင်ပါသည်။ |
| တရြားကက္ရာ | | |
| ကမ္ဘာကြီးပူနွေးလာမှု | ຈັ | စက်ရုံသုံးယာဉ်များ၊ မီးစက် အစရှိသော စွမ်းအင်လောင်ကျွမ်းခြင်းတို ကြောင့် ဖန်လုံအိမ်ဓါတ်ငွေ့ ထုတ်လွှတ်မှုဖြစ်စေပြီး ကမ္ဘာကြီးပူနွေးမှ ဖြစ်စေသည်။ |
| | • | • |
| 28 December, 2018 | | 27 |















| Zhejiang Tongli Clothing (Myanmar) နှင့် Polly HK (Myanmar) ကုမ္ပဏီတို့တွင် CSR အတွက် အမြတ်ငွေ၏ ၂ % နှုန်းကို ကျန်းမာရေး၊ ပညာရေး၊ နယ်မြေဖွံ့ဖြိုးတိုးတက်ရေး၊ ပတ်ဝန်းကျင် ကာကွယ်စောင့်ကြပ်ခြင်းတို့အတွက် အသုံးပြုသွားမည် ဖြစ်သည်။ | | | | | |
|--|--|-------|--|--|--|
| ကျန်းမာဓရး | ဝန်ထမ်းများ ကျန်းမာရေး တေင့်ရှောက်မှု | ი.ნ % | | | |
| ပညာရေး | ပညာရေးကဏ္ဍ မြှင့်တင်ရေးနှင့် လူ့အခွင့်အရေး အသိပညာပေးခြင်း | ი.ნ % | | | |
| နယ်မြေဖွံ့မြိုးတိုးတက်ရေး | ဒေသတွင်း လိုအပ်သကဲ့သို့ လှူဒါန်းရြင်း | 0.9% | | | |
| ပတ်ဝန်းကျင် ကာကွယ် စောင့်ကြည့်ရေး | ပတ်ဝန်းကျင် အရည်အသွေးများ ထိန်းသိမ်းရန် | 0.9% | | | |

| စောင့်ကြပ်ကြည့်ရှုရေး | | | | | | | |
|---|--|---|----------------------|---|--|--|--|
| ကက္ | အမျိုးအစား | နေရာ | ကြိမ်နှန်း | တာဝန်ရှိသူ | | | |
| လေအရည်အသွေး | SO ₂ , NO _x , CO ₂ , CO and PM | ဘွိုင်လာအနီး | တစ်နှစ် တစ်ကိုမ် | ပတ်ဝန်းကျင်ဆိုင်ရာအကြံပေးနှင့် ပူးပေါင်း၍ (စက်ရုံတာဝန်ရှိသူ) | | | |
| ဆုညံမှု | ဆူညံမှု ပမာက | စက်ရုံလုပ်ငန်းခွင်အတွင်း | တစ်နှစ် နှစ်ကြိမ် | ပတ်ဝန်းကျင်ဆိုင်ရာအကြံပေးနှင့် ပူးပေါင်း၍ (စက်ရုံတာဝန်ရှိသူ) | | | |
| စွန့်ပစ်ပစ္စည်း | စက်ရုံမှထွက်သည် အဖိုက် ဝန်ထမ်းစွန့်ပစ်အမှိုက် | စက်ရုံတွင် ယာယီစွန့်ပစ်သည့် နေရာနှင့် ပြင်ပသို့စွန့်ပစ်သည့် စစ်တမ်း | တစ်ပတ် နစ်ကြိမ် | စက်ရုံတာဝန်ရှိသူ | | | |
| ရေအရည်အသွေး | NEQG မှသက်မှတ်ထားသော parameter များ | သန့်စင်စက်မှ ထွက်သောရေ | సంస్ | စက်ရုံတာဝန်ရှိသူ | | | |
| လုပ်ငန်းခွင် ကျန်းမာရေးနှင့် ဘေးအွန္တရာယ် ကင်းရှင်းရေး | စစ်တမ်းကောက်ယူမှု | စက်ရုံအတွင်း | సుల్చ | စက်ရုံတာဝန်ရှိသူ | | | |
| စွမ်းအင် 28 December, 2018 | လျှပ်စစ်စွမ်းအင်၊ ရေအသုံးပြုမှု၊ လောင်စာ အသုံးပြုမှု | စက်ရုံအတွင်း | နေ့စဉ် | စက်ရုံတာဝန်ရှိသူ 36 | | | |

| အမျိုးအစား | ħŧ: | သုံးစွဲငွေ (USD) |
|---|------------------|------------------|
| လျှော့ရှေနေ | အစီအစဉ် | |
| စက်ရုံတွင်လေဝင်လေထွက်စနစ် | တစ်နှစ်တစ်ကြိမ် | ၂၀၀ တစ်နှစ် |
| သစ်ပင်ပန်းမန်စိုက်ပျိုးခြင်း | သုံးလ တစ်ကြိမ် | ၇၀ တစ်ကြိမ် |
| အမှိုက်စွန့် ပစ်မှု | တစ်လတစ်ကြိမ် | ၁၀၀၀ တစ်နှစ် |
| တစ်ကိုယ်ရေကာကွယ်ရေးပစ္စည်း (PPE) | တစ်နှစ်နှစ်ကြိမ် | ၁၅၀ တစ်ကြိမ် |
| လုပ်သားဆေးစစ်ခြင်းနှင့် ကျန်းမာရေးစောင့်ရှောက်မှု | တစ်နှစ်တစ်ကြိမ် | ၅ဂဂ တစ်နှစ် |
| အရေးပေါ်း | ශච්යාවේ | • |
| မီးသတ်ဆေးဘူး | တစ်လတစ်ကြိမ် | |
| မီးသတိပေးစနစ် | တစ်လတစ်ကြိမ် | ၂ ၃၀၀ တစ်လ |
| ရှေးဦးပြစုဆေးသေတ္တာ | တစ်လတစ်ကြိမ် | 7 |



APPENDIX E List of Commitment

Polly HK (Myanmar) Company Limited ၏ အဝတ်အထည် လျှော်ဇွတ်ခြင်းကြောင့် ဖြစ်ပေါ်လာနိုင်သော သဘာဝပတ်ဝန်းကျင်၊ လူမှုဘဝ နှင့် ကျန်းမာရေး ထိခိုက်မှုများရှိခဲ့ပါက လျှော့ချရေး၊ စီမံခန့်ခွဲရေး နှင့် တားဆီးရေး အစီအစဉ် များကို ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ် (Environmental Management Plan – EMP) တွင် ပါဝင်ရမည့် အချက်များကို အကောင်အထည်ဖော် စီမံဆောင်ရွက်သွားမည် ဖြစ်ကြောင်း၊ အောက်ဖော်ပြပါ ဇယားဖြင့် အကျဉ်းချုပ် စာရင်းပြုစု ဖော်ပြထားပါသည်။

| ကတိကဝတ်၏ အတိုချုပ် အမည် | အမှတ်စဉ် | ကတိကဝတ်အား ရှင်းလင်းဖော်ပြချက် | အစီရင်ခံစာပါ ရည်ညွှန်းရျက် (အခန်း) |
|-------------------------|----------|--|--|
| နုဒါန်း | Э | ရည်ရွယ်ချက် လုပ်ငန်းလုပ်ဆောင်မှုများကြောင့်ဖြစ်ပေါ် လာသည့် ပတ်ပန်းကျင်ထိခိုက်မှု အပေါ် လျှော့ချရန် ပတ်ပန်းကျင်စောင့်ကြပ်ကြည့်ရှုမည့်အစီအစဉ်အား အကောင်အထည်ဖော်ခြင်း ရည်မှန်းချက် သဘာပပတ်ပန်းကျင်ဆိုင်ရာစီမံခန့်ခွဲမှုစနစ်သည် ပတ်ပန်းကျင်ဆိုင်ရာစွမ်းဆောင်ရည်ကို စဉ်ဆက်မပြတ် ပြန်လည်သုံးသပ်ခြင်း၊ စွမ်းဆောင်ရည်မြှင့်တင်ခြင်း ဖြင့် အောင်မြင်စေရန် လုပ်ဆောင်ပေးသော စနစ်တစ်ခုဖြစ်ပါသည်။ သဘာဝပတ်ဝန်းကျင်ဆိုင်ရာစွမ်းဆောင်ရည်ကို မြှင့်တင်ရန် ပြန်လည်သုံးသပ်ခြင်းနှင့် အကဲဖြတ်ခြင်း သဘာပပတ်ပန်းကျင်ဆိုင်ရာစီမံခန့်ခွဲမှုစနစ်သည် သဘာဝပတ်ဝန်းကျင်ဆိုင်ရာစီမံခန့်ခွဲမှုစနစ်သည် | |
| | 0.0 | အဆိုပြုလုပ်ငန်း၏နောက်ခံအကြောင်းအရာ Polly HK (Myanmar) Company Limited သည် (CMP) စနစ် ဖြင့် အထည်ချုပ် စက်ရုံများအတွက် အဝတ်အထည်လျှော်ဖွတ်ခြင်း ဝန်ဆောင်မှု ပေးသော လုပ်ငန်းဖြစ်ပါသည်။ | |

| ကတိကဝတ်၏ အတိုချုပ် အမည် | အမှတ်စဉ် | ကတိကဝတ်အား ရှင်းလင်းဖော်ပြချက် | အစီရင်ခံစာပါ ရည်ညွှန်းရက် (အခန်း) |
|---|----------|---|---|
| | | ရန်ကုန်တိုင်း ရင်းနီးမြှုပ်နံမှု ကော်မရှင်မှ ထောက်ခံချက်အမှတ် (ခွင့်ပြုမိန့်အမှတ် YGN-ပ၄၅ /၂ပ၁၈) | |
| | | သယံဇာတနှင့်သဘာဂပတ်ဂန်းကျင်ထိန်းသိမ်းရေးဦးစီးဌာန၏စာအမှတ် ရက-၁/၃/၄ (အီးအိုင်အေ) ၁၃၆၆/၂၀၁၈)ဖြင့် ပတ်ဂန်းကျင်စီမံခန့်ခွဲမှုအစီအစဉ်ရေးဆွဲရန် သဘောထားပြန်ကြားခြင်း | |
| မူဝါဒ၊ ဥပဒေနှင့် အဖွဲ့အစည်းဆိုင်ရာမူဘောင်များ | J | ပတ်ဝန်းကျင် ထိန်းသိမ်းရေး ဥပဒေ (၂၊၁၂) ပတ်ဝန်းကျင် ထိန်းသိမ်းရေး နည်းဥပဒေ (၂၊၁၄) ပတ်ဝန်းကျင် ထိခိုက်မှုဆန်းစစ်ခြင်းဆိုင်ရာ လုပ်ထုံးလုပ်နည်း (၂၊၁၅) မြန်မာနိုင်ငံမှ ချမှတ်ထားသော စက်ရုံနှင့် သက်ဆိုင်သည့် အခြား လိုက်နာဆောင်ရွက်ရမည့် လုပ်ထုံးလုပ်နည်း၊ ဥပဒေ၊ နည်းဥပဒေ နှင့် မူဝါဒများ အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက် (၂၊၁၅) နှင့် နိုင်ငံတကာ ပတ်ဝန်းကျင်ဆိုင်ရာ စံသတ်မှတ်ချက်များနှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုဆိုင်ရာ လမ်းညွှန်ချက်များ | အခန်း (၃) |
| စီမံကိန်းအကြောင်းအရာဖော်ပြချက် | 9 | မြေကွက်အမှတ် (၃၊၁)၊ မြေတိုင်းအမှတ် ၂၅၊ ရွှေလင်ဘန်း စက်မှုဇုန်၊ လှိုင်သာယာမြို့နယ်၊ ရန်ကုန်တိုင်းဒေသကြီး။ မြေဧရိယာ ၂.၇၁၃ ဧက အဆိုပြုလုပ်ငန်းသည် ပြည်တွင်းလုပ်သား ၅၅ ဦးဖြင့် အဝတ်အထည်လျှော်ဖွတ်ခြင်းလုပ်ဆောင်မည် ဖြစ်ပါသည်။ အဝတ်အထည်လျှော်ဖွတ်ခြင်း လုပ်ငန်းနှင့် သက်ဆိုင်ရာ အချက်အလက်များ ဖော်ပြထားပါသည် လုပ်ငန်းမှ ထွက်ရှိနိုင်သည် ညစ်ညမ်းနိုင်မှုနှင့် စွန့်ပစ် ပစ္စည်းများနှင့် စက်ရုံမှ စီစဉ်ဆောင်ရွက်ထားမှုများအား ဖော်ပြထားပါသည် | အခန်း(၂) |
| ပတ်ဝန်းကျင် အရည်အသွေးတိုင်းတာမှု | 9 | အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက် (၂၀၁၅) နှင့် | အခန်း (၄) |

| ကတိကဝတ်၏ အတိုချုပ် အမည် | အမှတ်စဉ် | ကတိကဝတ်အား ရှင်းလင်းဖော်ပြချက် | အစီရင်ခံစာပါ ရည်ညွှန်းချက် (အခန်း) |
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| | | နိုင်ငံတကာ ပတ်ဝန်းကျင်ဆိုင်ရာ စံသတ်မှတ်ချက်များနှင့် ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှုဆိုင်ရာ လမ်းညွှန်ချက်များကို အခြေခံလေ့လာ တိုင်းတာထားပါသည်။ | |
| လေအရည်အသွေး | ç.ə | အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက် (၂၀၁၅)၏ ထုတ်လွှတ်အခိုးအငွေ့ (Air emissions) လမ်းညွှန်သတ်မှတ်ချက် (PM10 နှင့် PM2.5) တို့ဖြင့် နိူင်းယှဉ် ဖော်ပြထားပါသည်။ | အခန်းခွဲ (၄.၃.၃) |
| ဆူညံသံ | 9.J | အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက် (၂၀၁၅)၏ အမြင့်ဆုံးလက်ခံနိုင်သည့် ဆူညံသံအဆင့် (Noise level) လမ်းညွှန်သတ်မှတ်ချက် စက်မှုဇုန် ဧရိယာတွင် (70 One hour LAeq (dBA)) ဖြင့်နှိုင်းယှဉ် ဖော်ပြထားပါသည်။ | အခန်းခွဲ (၄.၃.၈) |
| ရေအရည်အသွေး | 9.2 | စက်ရုံမှ ထွက်မည့် စွန့်ပစ်ရေ အရည်အသွေးကို တိုင်းတာပြီး အမျိုးသား ပတ်ဝန်းကျင်ဆိုင်ရာ အရည်အသွေး (ထုတ်လွှတ်မှု) လမ်းညွှန်ချက် (၂ဂ၁၅) နှိုင်းယှဉ် ဖော်ပြထားပါသည်။ | အခန်းခွဲ (၄.၃.၇) |
| ဒေသဆိုင်ရာအချက်အလက်များ | 9.9 | အဆိုပြုလုပ်ငန်းတည်ရှိသည့် လှိုင်သာယာမြို့နယ်၏ဒေသဆိုင်ရာအချက်အလက်များ | အခန်းခွဲ (၄.၅) |
| ထိခိုက်မှုဆန်းစစ်ခြင်းနှင့်လျှော့ချရေးနည်းလမ်းများ | ອ | ကောင်းကျိုး အလုပ်ကိုင်အခွင့်အလမ်းများပေါများလာခြင်း၊ လမ်းပန်းဆက်သွယ်ရေးကောင်းမွန်လာခြင်း၊ နည်းပညာများတိုးတက်လာခြင်း ဆိုးကျိုး သဘာဂပတ်ဂန်းကျင်အရင်းအမြစ်များ၊ ဂေဟစနစ်အရင်းအမြစ်များ၊ လူသားများအပေါ် ထိရိုက်မှုများ၊ အမှိုက်စွန့်ပစ်ခြင်းကြောင့်ထိရိုက်မှုများ | အခန်း(၅) |
| | | | |
| ပတ်ဝန်းကျင် စီမံခန့်ခွဲမှု | G | ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ် (EMP) အတွက် စက်ရုံစီမံခန့်ခွဲရေးအဖွဲ့၊ အလုပ်သမားများ၊ ဒေသခံလူထုများ၏ အမြင်၊ သက်ဆိုင်ရာ တာဝန်ရှိသူတို့၏အကြံပြုချက်များနှင့် ကွင်းဆင်းလေ့လာသူများမှ ဆွေးနွေးတိုင်ပင်မှုတို့ အပေါ် အခြေခံပြီး ဆောင်ရွက်သွားမည် ဖြစ်သည်။ | အခန်း (၇) |

| ကတိကဝတ်၏ အတိုချပ် အမည် | အမှတ်စဉ် | ကတိကဝတ်အား ရှင်းလင်းဖော်ပြချက် | အစီရင်ခံစာပါ ရည်ညွှန်းရက် (အခန်း) |
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| | | EMP တွင် စက်ရုံအတွင်း ဘေးအွန္တရာယ် ကင်းရှင်းရေးစီမံခန့်ခွဲမှုများကို လိုက်နာရန်အတွက် ထည့်သွင်းဖော်ပြထားပါသည်။ | |
| လေထုညစ်ညမ်းမှုနှင့် ဖုန်မှုန့်များ | <u>၆</u> .୦ | စက်ရုံမှ ထုတ်လွှတ် အခိုးအငွေ့ ထွက်ရှိမှု မရှိခြင်း အထည်လျှော်ဖွတ်ခြင်း လုပ်ငန်းတစ်မျိုးကိုသာလုပ်ဆောင်ခြင်း ဖြစ်သောကြောင့် ထဲ့သွင်းဆင်းစားရန်မလိုပါ | အခန်းခွဲ (၇.၃) |
| ဆူညံသံထွက်ရှိမှု | 6.၂ | မီးစက်ခန်းများထားရှိခြင်းနှင့် အခြားသက်ဆိုင်သည့် ပစ္စည်းများအား စနစ်တကျ ထိန်းသိမ်းထားရှိရမည်။ ဝန်ထမ်းများကို သက်ဆိုင်ရာကိစ္စရပ်များနှင့် ပတ်သက်၍ သင့်တော်သော သင်တန်းများပေးခြင်း၊ ဆူညံသံထွက်ရှိသည့်နေရာများတွင် PPE များကို ဝတ်ဆင်စေခြင်း | အခန်းခွဲ (၇.၄) |
| အမှိုက်စွန့်ပစ်မှု | ઉ.၃ | စက်ရုံအတွင်း အမှိုက်ပုံးများထားရှိခြင်း သတ်မှတ်ထားသောနေရာတွင်သာ အမှိုက်စို၊ အမှိုက်ခြောက်များ ခွဲခြားစွန့်ပစ်ခြင်း အမှိုက်များကို ရန်ကုန်စည်ပင်သာယာရေးကော်မတီနှင့် ချိတ်ဆက်၍စွန့်ပစ်ခြင်း | အခန်းခွဲ (ဂု.၅) |
| စွန့်ပစ်ရည် | ૬.၄ | ရေဆိုးသန့်စင်စက် တက်ဆင်ထားခြင်း ပုံမှန်စစ်ဆေးခြင်းနှင့် သန်ရှင်းမှုပြုလုပ်ခြင်း | အခန်းခွဲ (၇.၆) |
| မီးဘေးအွန္တရာယ် | ^હ .၅ | မီးအန္တရာယ်အရေးပေါ် အခြေအနေများအတွက် စက်ရုံအတွင်းတွင် မီးသတ်ဆေးဘူးများ၊ မီးသတ်ရေပိုက်များ၊ မီးသတ်ရေကန် ထားရှိရမည်။ အရေးပေါ် ထွက်ပေါက်များနှင့် စုရပ်နေရာများအား လမ်းညွှန်ပြ ထားရှိရမည်။ မီးသတ်ရေလှောင်ကန်များ၊ မီးငြိမ်းသတ်ရေးကိရိယာများကို ပုံမှန်စစ်ဆေးခြင်း စက်ရုံအတွင်း အရေးပေါ် အချက်ပေးစနစ်များ တပ်ဆင်ခြင်း အရေးပေါ် ထွက်ပေါက်များတစ်လျှောက်တွင် စက်ပစ္စည်းများနှင့် အခြားသောကုန်ပစ္စည်းများ ပိတ်ဆို့ထားခြင်း မရှိရန် စီစဉ်ထားရမည်။ | အခန်းခွဲ (ဂု.ဂု) |
| လုပ်ငန်းခွင်ထိခိုက်မှုနှင့် ကျန်းမာရေး | હિ.હ | ရှေးဦးပြုစုနည်း သင်တန်းများ၊ ဘေးအွန္တရာယ်ကင်းရှင်းရေး လေ့ကျင့်မှု၊ | အခန်းခွဲ (၇.၈) |

| ကတိကဝတ်၏ အတိုချုပ် အမည် | အမှတ်စဉ် | ကတိကဝတ်အား ရှင်းလင်းဖော်ပြချက် | အစီရင်ခံစာပါ ရည်ညွှန်းချက် (အခန်း) |
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| | | မီးငြိမ်းသတ်နည်းသင်တန်းများ၊ အခြားလိုအပ်သော လေ့ကျင့်မှုများ၊ စက်ပစ္စည်းများကို စနစ်တကျကိုင်တွယ်မှုများအား သင်တန်းပေးခြင်း | |
| | | လုပ်ငန်းခွင်အတွင်း အလုပ်သမားများ အလင်းရောင်ကောင်းစွာရရှိစေရန်နှင့် အမြင်အာရုံမထိခိုက်စေရန် အလင်းရောင်များကို လုံလောက်စွာ ထားရှိခြင်း | |
| | | ဌာနတစ်ခုချင်းစီအတွက် တစ်ကိုယ်ရေသုံးကာကွယ်ရေးပစ္စည်းများ ထောက်ပံ့ပေးခြင်း | |
| | | လျှပ်စစ်အန္တရာယ်ကာကွယ်ရန်အတွက် လျှပ်စစ်ထိန်းသိမ်းရေးဝန်ထမ်းများအား ထားရှိ၍ အဆိုင်းခွဲ၍ ပုံမှန်စစ်ဆေးကာကွယ်မှုများပြုလုပ်စေခြင်း | |
| | | ဝန်ထမ်းများ၏ကျန်းမာရေးအတွက် စက်ရုံတွင် စီမံခန့်ခွဲခြင်း | |
| | | လုပ်သားများအတွက် ၈နာရီအတွင်း လက်ခံနိုင်သည့် အမြင့်ဆုံးဆူညံမှုနန်းမှာ 90 dB(A) ဖြစ်သည်၊ ထို့ကြောင့် အသံဆူညံသည့်နေရာများတွင် အသံလုံသည့် နားကြပ်များ နားအကာအကွယ်ပစ္စည်းများ တပ်ဆင်စေခြင်း | |
| | | အန္တရာယ်ရှိ စွန့်ပစ် ပစ္စည်း ထားရှိမည့် နေရာကို စနစ်တကျ ထားရှိခြင်း | အခန်းခွဲ (၇.၉) |
| အွန္တရာယ်ရှိ စွန့်ပစ် ပစ္စည်း | હિ. _ગ | လုပ်ငန်းခွင် အွန္တရာယ်ကျင်းရှင်းရေးနှင့် ကျန်းမာရေး အစီအစဉ်ဖြင့် ကိုင်တွယ်ပြုလုပ်ရန် ပြန်လည်အသုံးပြုသောနည်းစနစ်ကို အသုံးပြုရန်နှင့် စနစ်တကျ ထားရှိရန် | |
| | | စွန့်ပစ်ရာတွင် လိုင်စင်ရ အဖွဲ့အစည်းများဖြစ်သော (DOWA and YCDC) တို့ဖြင့် စနစ်တကျ ပစ်ရန် | |
| အရေးပေါ် အခြေအနေ | ଓ.ଚ | မီးဘေး၊ ငလျင်၊ ရေလွှမ်းမိုးမှု၊ မုန်တိုင်း နှင့်အခြားအရေးပေါ် ကိစ္စများကို ပို၍သင့်တော်သော စီမံခန့်ခွဲမှုများပြုလုပ်ခြင်း | အခန်းခွဲ (ဂု.၁၀) |
| | | စက်ရုံ၏ ကဏ္ဍတစ်ခုချင်းတိုင်းတွင် မီးငြိမ်းသတ်ရေးကိရိယာများနှင့် မီးငြိမ်းသတ်ရေးစနစ်များ ထားရှိခြင်းနှင့် စစ်ဆေးခြင်း | |
| | | မီးဘေးထွက်ပေါက်၊ အရေးပေါ်ထွက်ပေါက် အစရှိသည်တို့ကို အလုပ်သမားများနှင့် တိုင်ပင်ဆွေးနွေးပြီး အသေးစိတ်အကဲဖြတ်ခြင်း | |

| ကတိကဝတ်၏ အတိုချုပ် အမည် | အမှတ်စဉ် | ကတိကဝတ်အား ရှင်းလင်းဖော်ပြချက် | အစီရင်စံစာပါ ရည်ညွှန်းချက် (အခန်း) |
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| | | မီးငြိမ်းသတ်ခြင်းအား ပုံမှန်လေ့ကျင့်ထားရှိခြင်း ငလျင်လှုပ်တဲ့အခါ လုံခြုံသည့်နေရာတွင်သာနေရန်၊ အပြင်မထွက်ခြင်း၊ အပြင်တွင်လုပ်ကိုင်ရသည့် လုပ်သားများမှာ သစ်ပင်၊ အဆောက်အဦးများကို သတိထားရန်နှင့် သက်ဆိုင်ရာလုံခြုံရေးသင်တန်းများပို့ချခြင်း မုန်တိုင်းတိုက်ခြင်း၊ ရေကြီးခြင်း၊ မြေပြိုခြင်းတို့ကြောင့် မြွေကဲ့သို့သော အခြားအန္တရာယ်ရှိတိရိစ္ဆာန်များအန္တရာယ်များကို သတိပေးခြင်း ရှေးဦးသူနာပြုခြင်းကဲ့သို့သော ကျန်းမာရေးဆိုင်ရာအဖွဲ့ အစည်းများ ပြင်ဆင်ထားရှိခြင်း နီးစပ်ရာ ဆေးရုံ၊ ဆေးခန်း၊ ရဲစခန်း၊ မီးသတ်ဌာနတို့၏ ဆက်သွယ်နိုင်မည့် ဖုန်းနံပါတ်များအား လူအများမြင်သာသည့် နေရာများတွင် ထားရှိခြင်း မီးသတ်အဖွဲ့၊ ကယ်ဆယ်ရေးအဖွဲ့ နှင့် လုံခြုံရေးဟူသော အဖွဲ့များ ထားရှိ၍ လစဉ် လုံခြုံရေးများအတွက် အစည်းအဝေးများပြုလုပ် စီမံခန့်ခွဲခြင်း ဘေးအွန္တရာယ်ဆိုင်ရာ သင်တန်းများအား သေချာပြုလုပ်စေခြင်း | |
| စောင့်ကြပ်ကြည့်ရူမှု | ૭.၉ | အဆိုပြုစီမံကိန်းသည် ပတ်ဝန်းကျင်စောင့်ကြပ်ကြည့်ရှုမှု အစီရင်ခံစာအား ၆လ တစ်ကြိမ် ဝန်ကြီးဌာနများသို့ တင်ပြရမည်။ (စောင့်ကြပ်ကြည့်ရှုမှု ဇယားဖြင့် ဖော်ပြထားပါသည်) | အခန်းခွဲ (၇.၁၁) |
| မကျေနပ်မှုများနှင့် ပြဿနာများ ဖြေရှင်းခြင်း | 6.00 | စီမံကိန်းအနီးပတ်ဝန်းကျင်နေထိုင်သောသူများ (သို့) သက်ဆိုင်သူများသည် သူတို့ခံစားနေရသော ပြဿနာများနှင့် သက်ရောက်မှုများနှင့် ပတ်သက်၍ ဖြေရှင်းမှုများပြုလုပ်ရန် စက်ရုံ၏ တာဝန်ရှိသူများ၊ စက်မှုဇုန် စီမံခန့်ခွဲရေး ကော်မတီ၊ အုပ်ချုပ်ရေးဦးစီးဌာနတို့ဖြင့် ပူးပေါင်း ချိတ်ဆက် လုပ်ဆောင်ခြင်း။ ကော်မတီအဆင့်တွင် အခြားမဖြေရှင်းနိုင်သော ပြဿနာများကို တာဝန်ရှိအာဏာပိုင်များသို့ တင်ပြပြီး တရားရေးအရ အဆုံးအဖြတ်ပြုလုပ်မည် ဖြစ်သည်။ | အခန်းခွဲ (၆.၁၃) |
| အများပြည်သူနင့်တိုင်ပင်ဆွေးနွေးခြင်း | <i>२</i> | ၂၆၊ ဒီဇင်ဘာလ ၂၀၁၈ ခုနှစ်တွင် ရွှေလင်ဘန်းစက်မှုဇုန် ကော်မတီရုံး ၏ ကနောင်ခန်းမတွင် | အခန်း(၆) |

| ကတိကဝတ်၏ အတိုချုပ် အမည် | အမှတ်စဉ် | ကတိကဝတ်အား ရှင်းလင်းဖော်ပြချက် | အစီရင်ခံစာပါ ရည်ညွှန်းချက် (အခန်း) |
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| | | ပြုလုပ်ခဲ့ပါသည့် အကြောင်းဖော်ပြထားပါသည်။ | |
| လူထုအကျိုးတူပူးပေါင်းပါဝင်မှု | ၇.၁ | အဆိုပြုလုပ်ငန်းသည် လူထုအကျိုးပြုပူးပေါင်းပါဝင်မှုကို ကျန်းမာရေး၊ ပညာရေးနှင့် နယ်မြေဖွံ့ဖြိုးတိုးတက်ရေးအတွက် မြန်မာနိုင်ငံရင်းနှီးမြုပ်နှံမှုကော်မရှင်က ချမှတ်သည့် အတိုင်း ကုမ္ပဏီ၏ အကျိုးအမြတ် ၂ ရာခိုင်နှုန်းအား နှစ်စဉ် ထည့်ဝင်သွားမည်ဖြစ်သည်။ | အခန်းခွဲ (၇.၁၄) |
| နိဂုံးနှင့်သုံးသပ်ချက် | ଚ | အကျဉ်းချုပ်အားဖြင့် ပြည်ထောင်စုသမ္မတမြန်မာနိုင်ငံတော်၏ လမ်းညွှန်ချက်များ၊ ပတ်ဝန်းကျင်ဆိုင်ရာ ဥပဒေ၊ နည်းဥပဒေ၊ စည်းမျဉ်းစည်းကမ်းများနှင့် ချမှတ်ထားသော မူဝါဒလမ်းညွှန်ချက်များအတိုင်း ပတ်ဝန်းကျင်ဆိုင်ရာ စီမံခန့်ခွဲမှု အလေ့အကျင့်များ၊ လုပ်ငန်းစဉ်များနှင့် လိုက်နာဆောင်ရွက်ကျင့်သုံးရန်တာဝန်များကို ပတ်ဝန်းကျင်စီမံခန့်ခွဲမှု အစီအစဉ်တွင် ဖော်ပြရှင်းလင်းတင်ပြထားပါသည်။ | အခန်း(၈) |