

South Asia Co-operative Environment Programme
(SACEP) Plastic free Rivers and Seas for South Asia
(P171269)

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN
OF MATERIAL RECOVERY FACILITY - BATTICALOA

GRANTEE: NEGOMBO RECYCLING CLUB PVT LTD - SRI LANKA

Implemented by:



SACEP

Supported by:



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Environmental and Social Management Plan (ESMP)

Building a Blue Lanka by Uplifting Communities - BLUECAP

1. Subproject Information

Subproject Title:	Material Recovery Facility - Valachchenai, Batticaloa District
Estimated Cost:	19,310 USD
Start/Completion Date:	01.05.2024-30.09.2024

2. Site/Location Description

The proposed Material Recovery Facility (MRF) site is located in the Batticaloa district of the Eastern province in Sri Lanka. The site spans 45 perch and its surroundings feature a mixed residential land use pattern. The area is characterized by flat terrain with sandy soil and very little ground vegetation. Batticaloa has an average annual temperature of 27.5°C (81.6°F) and receives 1349 mm (53.1 inches) of precipitation each year.

To ensure the facility operates effectively, improvements to the access roads are necessary, and provisions for water and electricity supply need to be established.



[Location in the Map](#)

3. Subproject Description and Activities

Facilitating a new Women-Owned MRFs

This project involves construction and establishment of a recyclable plastic collection center with the following components:

1. Constructing a 20x30 sq. ft. collection center with a concrete floor, a shelter, and metal sheet side covers.
2. Collecting recyclable plastic, manually sorting it, and baling the sorted plastics.
3. Storing the bales under shelter until dispatch.
4. Additionally, three electric bicycles will be provided for collecting recyclable plastic.

The center aims to collect 14 tons of recyclable plastic per month and deliver it to the NRC for recycling. The operational area would be a max 50 km radius within the Batticaloa district.

4. ESMP Matrix: Risk and Impacts, Mitigation, Monitoring

4.1 Construction stage

Anticipated E&S Risks & Impacts	Risk Mitigation & Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost/ USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location & Frequency	Responsibility *	
01. Disturbing the soil and removing few trees during land clearance	<ul style="list-style-type: none"> I. The land geography supports the prevention of soil erosion or sedimentation . II. Removal trees with minimal disturbance to the environment and neighbors. III. Cut trees will be used in construction purposes IV. 05 Mango trees will be planted 	at site / During Construction	MRF Owner	planted trees/Construction site plan	Regular Monitoring Site visit	E and S Officer NRC Technical Expert (Envt) Country team	150
02. Environmental damage due to discharge of waste water generated during construction	Construction waste water will be directed to a pit	Construction site (01 day)	Contractor and the Environmental and Social officer	Availability of the pit Checking the practice of water discharge	Regular Monitoring One site visit during construction and monthly meetings- Online by country team/ NRC	NRC- E and S Officer Technical Expert (Envt) Country team/NRC	
03. Noise Pollution during Excavation and earthworks soil compaction, cutting iron bars and machine installation and public nuisance	<ul style="list-style-type: none"> I. Carry out during day time II. Maintain a public complaint Box III. Noise levels at the boundary of the Land will be maintained below 75dB(A) 	At site/ During Land clearing and Earthwork - Earth filling and and compaction, machine	Contractor and the Environmental and Social office	Noise records Complaint received	Regular Monitoring One site visit during construction and monthly meetings- Online by country team/ NRC	NRC- E and S Officer NRC Technical Expert (Envt) Country team	50

Anticipated E&S Risks & Impacts	Risk Mitigation & Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost/ USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location & Frequency	Responsibility *	
	IV. Selection of less Noisy Equipment (At least D4 type machines will be used to minimize the noise.	installation, steel works (one to 02 days)					
04. Solid waste Accumulation and occurrence of vector breeding grounds	<p>I. Construction waste disposal plan (Construction waste will be sorted for reuse, Any remaining waste will be removed from the site by the building contractor with Local Authority)</p> <p>II. Daily checking for mosquito Breeding grounds</p>	at site (01 month)	Contractor	Availability of the plan and implementation Daily checking records	Regular Monitoring Monthly meeting	NRC- E and S Officer Technical Expert (Envt) Country team	50
05. Physical and hygienic risk associated with Health , safety and hygiene of the workers during construction	<p>I. Providing sanitary facilities and access to safe drinking water</p> <p>II. Provision of necessary PPE, Daily safety briefing to the workers</p> <p>III. Availability of First Aid box</p>	Daily at site/ During construction period.	Contractor and the Environmental and Social officer	Availability of adequate sanitary facilities Availability of drinking water Wearing PPE during construction activities, Availability of First Aid box , Accident records	Regular Monitoring One site visit during construction and monthly meetings- Online by country team/ NRC	NRC- E and S Officer Technical Expert (Envt) Country team	200

Anticipated E&S Risks & Impacts	Risk Mitigation & Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost/ USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location & Frequency	Responsibility *	
06. Social risk due to Sexual exploitation and abuse (SEA) and sexual harassment (SH)	<ol style="list-style-type: none"> I. Worker grievance addressing methodology II. Appointing a point of contact for Complaints 	at site/During construction period	Environmental and Social officer	Complaint box and Availability of management plan	Regular Monitoring site visit and meeting	NRC- E and S Officer Technical Expert (Envt) Country team	50
07.Potential for social issues related to labor influx	Worker grievance meetings and awareness on communicable diseases and Gender based violence	at site	Contractor and the Environmental and Social officer	Availability of meeting records	Regular Monitoring site visitor meeting	NRC- E and S Officer Technical Expert (Envt) Country team	
08. Non compliance with the local regulatory requirement and workers dissatisfaction due to extensive work requirements	<ol style="list-style-type: none"> 1. Development and implement of code of conduct in line with national labor laws and ESF of the PLEASE Project 2. Wages will be paid in accordance with ESF of the project 3. Prevents use of all forms of forced labour and child labour 	At site	Contractor and HR Officer	Availability and implementation of code of conduct Payrolls Site visit and reviewing received complains	Regular Monitoring	Technical Expert (Envt) Country team and NRC	

Anticipated E&S Risks & Impacts	Risk Mitigation & Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost/ USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location & Frequency	Responsibility *	
09. Limited support of the Government and other stakeholders	<ol style="list-style-type: none"> 1. Identify Stakeholders and communities 2. Conduct awareness programmes/consultations as appropriate. 	Project locations	Janathakshan	Participation of stakeholders	Reviewing records	Technical Expert (Envt) Country team and NRC	1000
10 Complaints Due to Project	<ol style="list-style-type: none"> 1. Establish the approved Project's Grievance Redress Mechanism (GRM) and actions for the GRM 2. Publicize the existence of the Project's GRM through campaigns, websites, billboards, etc. 3. Ensure that the contact details are placed on notice boards at the site 	Project Location	Contractor-NRC /GESI and Safeguard Specialist	<p>Number of community complaints</p> <p>Grievance Redress Mechanism, Complaint log and implementation</p>	<p>Site visits and checking records</p> <p>Visit during operational period and weekly meetings</p>	<p>E & S Officer NRC</p> <p>Technical Expert (Envt)</p>	100

*** Overall Monitoring and supervision of the implementation of ESMP will be done by the PIU and UNOPs team.**

4.2 Operational Stage

Anticipated E&S Risks and Impacts	Risk Mitigation and Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location and Frequency	Responsibility *	
01 Solid waste Accumulation During sorting plastic and risk of public nuisance due to open burning	I. Non recyclable Waste generated will be disposed with Local Authority II. segregated degradable will be composted III. open burning will be prevented	At MRF Facility, daily	MRF Owner	Inhouse Waste Management Plan Disposal and dispatching records	Regular monitoring One visit during operational period	NRC- E and S Officer Technical Expert (Envt) and NRC	50
02 Emission of pollutants (Baling Machines emission) and noise	I. Machineries used in MRF factory (Baling Machines) do not produce any form of fumes or vapor II. Use of appropriate PPEs	At MRF Facility, daily	MRF Owner	Use of PPEs	Regular monitoring Site visit	E & S Officer - NRC Technical Expert (Envt) and NRC	100
03. Noise generation during bailing process and public nuisance and health	I. Boundary limits of Noise will be maintained as per the	At MRF Facility, daily, Machinery purchasing	MRF Owner	Use of PPEs Complain from the communities	Regular Monitoring	NRC- M& S Officer	

Anticipated E&S Risks and Impacts	Risk Mitigation and Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location and Frequency	Responsibility *	
implication to workers	<p>National Standards (55dB (A)</p> <p>II. Providing appropriate PPEs for the workers</p> <p>III. Selection of machines with less noise and timely maintenance</p>						
04. Physical and Psychosocial Risk associated with Health , safety and hygiene of the workers during operations	<ol style="list-style-type: none"> 1. Providing sanitary facilities and access to safe drinking water and clean dining area 2. Training on safety and proper use of personal protective equipment (PPE) and Daily safety briefing will be conducted 3. Provision of First aid box 4. Installation of fire extinguisher 5. Emergency Preparedness plan and awareness on responding. 	At MRF Facility, daily	MRF Owner	<p>Availability of adequate sanitary facilities,</p> <p>Practice of wearing PPE during operational activities</p> <p>Daily checking records</p> <p>Availability of First Aid box ,</p> <p>Availability of valid Fire extinguishers ,</p> <p>Emergency Preparedness plan, Training record</p>	<p>Regular Monitoring</p> <p>Site visits and checking records</p> <p>visit during operational period and weekly meetings</p>	<p>NRC- E and S Officer</p> <p>Technical Expert (Envnt)</p>	400

Anticipated E&S Risks and Impacts	Risk Mitigation and Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location and Frequency	Responsibility *	
	<ul style="list-style-type: none"> 6. Maintaining accident registry 7. Perform medical check ups for workers 8. Displaying Instruction Boards 			<p>Accident records and follow up actions</p> <p>Medical check ups records</p> <p>Availability of instruction boards</p>			
05. Social risk (individuals, communities, and organizations) due to Sexual exploitation and abuse (SEA) and sexual harassment (SH)	<ul style="list-style-type: none"> 1. A worker grievance redress methodology, incorporating focal points for both genders and an effective referral mechanism, will be adopted 2. Provision of anonymous reporting and complaining system along with protection measures for individuals who report 3. Regular trainings and workshops regarding gender-based violence SEA and SH identification and mitigations 	At MRF Facility, daily	Contractor and the Environmental and Social officer	complaint box and Availability of management plan	<p>Site visits and checking records</p> <p>One visit during operational period</p>	<p>NRC- E and S Officer</p> <p>Technical Expert (Envnt) and NRC</p>	50

Anticipated E&S Risks and Impacts	Risk Mitigation and Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location and Frequency	Responsibility *	
06. Potential for social issues related to labor influx	1. Worker grievance meetings and awareness on communicable diseases, Training on gender based violence	At MRF Facility, daily	Contractor and the Environmental and Social officer	Availability of meeting and training records	Regular monitoring site visit and checking records	Gender specialist - NRC	
07. Complaints Due to Project	<ol style="list-style-type: none"> 1. Establish the approved Project's Grievance Redress Mechanism (GRM) and actions for the GRM 2. Publicize the existence of the Project's GRM through campaigns, websites, billboards, etc. 3. Ensure that the contact details are placed on notice boards 	Project Location/Construction and operation period	Operation Manager/ESI and Safeguarding Specialist	<p>Number of community complaints</p> <p>Grievance Redress Mechanism, Complaint log and implementation</p>	<p>site visits</p> <p>Monthly</p>	<p>E & S Officer NRC</p> <p>Technical Expert (Envt)</p>	100
08. Non compliance with the local regulatory requirement and workers dissatisfaction due to extensive work requirements	<ol style="list-style-type: none"> 1. Development and implement of code of conduct in line with national labor laws and ESF of the PLEASE Project 2. Wages will be paid in accordance with ESF of the project 	At site	Facility Manager and HR Officer	<p>Availability and implementation of code of conduct</p> <p>Payrolls</p> <p>Site visit and reviewing received complains</p>	Regular Monitoring	<p>Technical Expert (Envt)</p> <p>Country team and NRC</p>	1550

Anticipated E&S Risks and Impacts	Risk Mitigation and Management Measures	Impact Mitigation		Impact/Mitigation Monitoring			Mitigation & Monitoring Cost USD
		Location/ Timing/ Frequency	Responsibility	Parameter to be monitored	Methodology, including Location and Frequency	Responsibility *	
	3. Prevents use of all forms of forced labour and child labour						
09. Limited support of the Government and other stakeholders	1. Identify Stakeholders and communities 2. Conduct awareness programmes/consultations as appropriate.	Project locations	Janathakshar	Participation of stakeholders	Reviewing records	Technical Expert (Envnt) Country team and NRC	

*** Overall Monitoring and supervision of the implementation of ESMP will be done by the PIU and UNOPs team.**

5. Capacity Development & Training

Requirements of capacity building, training or new staffing that may be necessary for effective implementation.

01. Training on Safeguard, First aid, emergency preparedness, Fire drills
02. Provide training on recognizing, preventing, and responding to SEA and SH for both Community and workers
03. Periodic consultation and awareness on gender based violence both Community and workers
04. Training on Machine operations and operational procedures of sorting, housekeeping, environmental protection and waste management

6. Implementation Schedule and Cost Estimates

	Timeline						Cost - USD
	July	Aug	Sep	Oct	Nov	Dec	
Mitigatory measures to be implemented during the Construction Stage including PPE , Sanitary facilities and Waste Management							500
Mitigation measures during the operational period on Health, Safety and hygiene of the workers							200
Noise and solid waste management							150
Preparation and displaying instruction boards							150
Fire controls and extinguishes							150
Capacity development and training							100
Workers/ Stakeholder training, awareness and consultation and Implementation of Gender AP							2550

7. Attachments

- [1. Agreement with MRF](#)
- [2. CEA letter](#)
- [3. Land lease agreement](#)
- [4. Land Deed](#)

IV. Review & Approval

NEGOMBO RECYCLING CLUB (PRIVATE) LIMITED
PV 002627



.....
Managing Director
NISHANTHA PERERA

Prepared By:(Signature)

Position: **Date :** 01-Aug-2024

Reviewed By:



.....(Signature)

Sarojinie Jayasekara

Position: Technical expert - Environment of
the Country Team

Date 1st Aug 2024

Approved By



Kapila Mahesh Rajapaksha,

Position: Environment and Social Development
Specialist. SACEP

Date: 6th August 2024