

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

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN  
OF RECYCLING PLANT - BINGIRIYA

GRANTEE: NEGOMBO RECYCLING CLUB PVT LTD - SRI LANKA

# Environmental and Social Management Plan (ESMP)

## Building a Blue Lanka by Uplifting Communities - BLUECAP

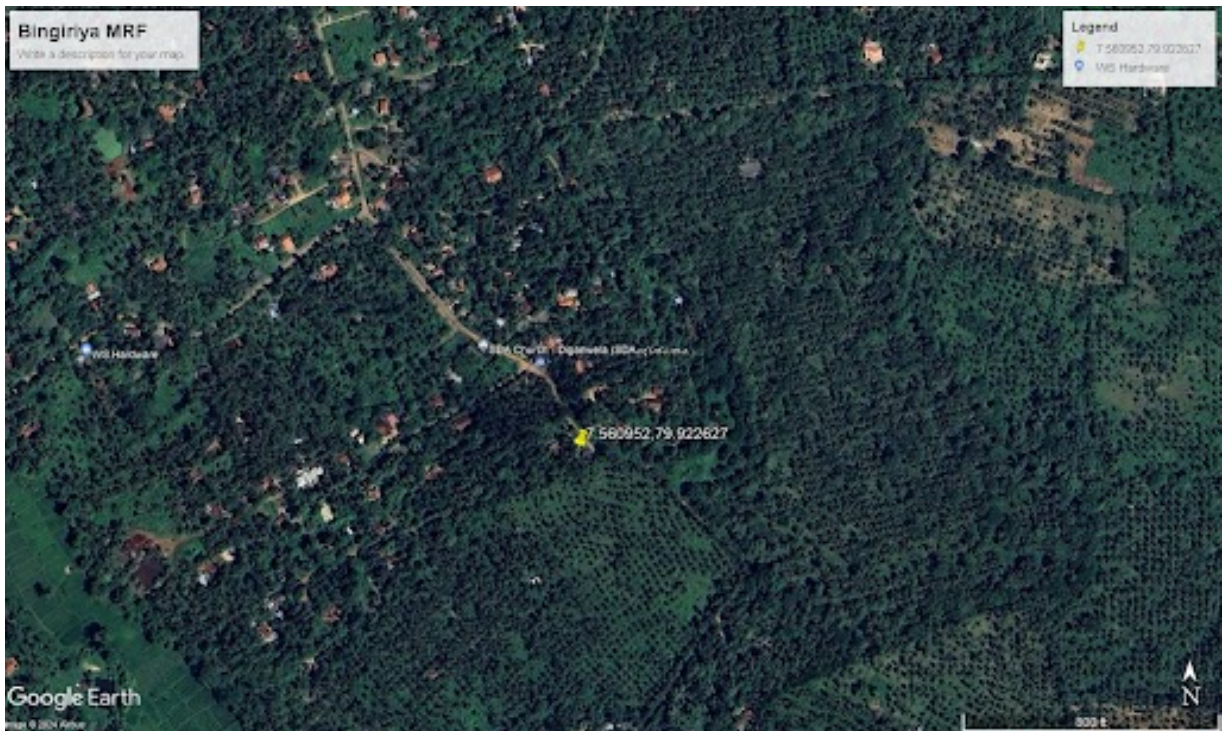
### 1. Subproject Information

<b>Subproject Title:</b>	Material Recovery Facility - Bingiriya, Puttalam District
<b>Estimated Cost:</b>	19,310 USD
<b>Start/Completion Date:</b>	01.05.2024-30.09.2024

### 2. Site/Location Description

The proposed Material Recovery Facility (MRF) site is located at Diganwala, Wellarawa, Puttalam, within the Puttalam district of the North Western Province in Sri Lanka. The site spans 1 acre of flat land and is situated in a mixed residential area with no public places or houses close by. The Land is slightly soily flat land. There are few coconut trees in the land. But those trees won't be affected by the construction activities.

The site is located in the intermediate zone with a tropical climate. The average annual temperature is 26.9°C (80.4°F), and the area receives approximately 1358 mm (53.5 inches) of rainfall each year.



[Site in the map](#)

### 3. Subproject Description and Activities

#### 2.1.7 Facilitating 05 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 Material Recovery Facility aims to collect 14 tons of recyclable plastic per month and deliver it to the Negombo Recycling Club for recycling. Its operational area will cover a radius of up to 50 km within the Puttalam 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	<ol style="list-style-type: none"> <li>The land geography supports the prevention of soil erosion or sedimentation .</li> <li>Removal trees with minimal disturbance to the environment and neighbors.</li> <li>Cut trees will be used in construction purposes</li> <li>05 Mango trees will be planted</li> </ol>	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 (concrete work)	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	NRC- E and S Officer  Technical Expert (Envt) Country team/NRC	
03. Noise Pollution and public nuisance during Excavation and earthworks soil compaction, cutting iron bars and machine installation	<ol style="list-style-type: none"> <li>Carry out during day time</li> <li>Maintain a public complaint Box</li> <li>Noise levels at the boundary of the Land will be maintained below 75dB(A)</li> </ol>	At site/ During construction At project site	Contractor and the Environmental and Social officer-NRC	Noise records Complain received and follow up actions	Regular Monitoring  One site visit during construction and monthly meetings- Online	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 *	
	4. Selection of less Noisy Equipment (At least D4 type machines will be used to minimize the noise.				by country team/ NRC		
04.Solid waste Accumulation and occurrence of vector breeding grounds	<ol style="list-style-type: none"> <li>1. 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)</li> <li>2. Daily checking for mosquito Breeding grounds</li> </ol>	at site ( 01 month)	Contractor	<p>Availability of the plan and implementation and daily checking</p> <p>Reviewing records</p>	<p>Regular Monitoring</p> <p>Monthly meeting</p>	<p>NRC- E and S Officer</p> <p>Technical Expert (Envt) Country team</p>	50
05.Physical and hygienic risk associated with Health , safety and hygiene of the workers during construction	<ol style="list-style-type: none"> <li>1. Providing sanitary facilities, proper and clean dining space and access to safe drinking water</li> <li>2. Provision of necessary PPE, Daily safety briefing to the workers</li> <li>3. Availability of First Aid box</li> </ol>	Daily at site/ During construction period.	Contractor and MRF Owner	<p>Availability of adequate Dining and sanitary facilities</p> <p>Availability of safe drinking water</p> <p>Practice of wearing PPE during construction activities, Availability of First Aid box , Accident</p>	<p>Regular Monitoring by NRC</p> <p>One site visit during construction and monthly meetings by country team</p>	<p>NRC- E and S Officer</p> <p>Technical Expert (Envt) Country team</p>	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 *	
				records and follow up actions			
06.Social risk due to Sexual exploitation and abuse (SEA) and sexual harassment (SH)	<ol style="list-style-type: none"> <li>1. Worker grievance addressing methodology</li> <li>2. Appointing a point of contact for Complaints</li> <li>3. Provide training on recognizing, preventing, and responding to SEA and SH for contractors and communities</li> </ol>	at site/During construction period	Environmental and Social officer	Complaint box follow up actions for complains Availability of management plan	Regular Monitoring  site visit and month meeting	NRC- E and S Officer  Technical Expert (Envt) Country team	50
07.Potential for social issues related to labor influx	<ol style="list-style-type: none"> <li>1. Worker grievance meetings and awareness on communicable diseases and Gender based violence</li> </ol>	at site	Contractor and the Environmental and Social officer	Availability of meeting records	Regular Monitoring  site visit and month meeting	NRC- Gender Officer  Technical Expert (Envt) Country team	1000
08. Non compliance with the local regulatory requirement and workers dissatisfaction due to extensive work requirements	<ol style="list-style-type: none"> <li>1. Development and implement of code of conduct in line with national labor laws and ESF of the PLEASE Project</li> <li>2. Wages will be paid in accordance with ESF of the project</li> <li>3. Prevents use of all forms of forced labour and child labour</li> </ol>	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"> <li>1. Identify Stakeholders and communities</li> <li>2. Conduct awareness programmes/consultations as appropriate.</li> </ol>	Project locations	Janathakshan	Participation of stakeholders	Reviewing records	Technical Expert (Envt) Country team and NRC	
10 Complaints Due to Project	<ol style="list-style-type: none"> <li>1. Establish the approved Project's Grievance Redress Mechanism (GRM) and actions for the GRM</li> <li>2. Publicize the existence of the Project's GRM through campaigns, websites, billboards, etc.</li> <li>3. Ensure that the contact details are placed on notice boards at the site</li> </ol>	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 &amp; S Officer NRC</p> <p>Technical Expert (Envt)</p>	100

#### 4.2 Operational Stage

Anticipated E&S Risks & Impacts	Risk Mitigation & Management Measures	Location/Timing/Frequency	Responsibility	Parameter to be monitored	Methodology, including Location & Frequency	Responsibility *	
01 Solid waste Accumulation During sorting plastic and risk of public nuisance due to creating vector breeding grounds	<ol style="list-style-type: none"> <li>1. Non recyclable Waste generated will be disposed with Local Authority</li> <li>2. segregated degradable will be composted</li> <li>3. Vector breeding grounds will be prevented</li> </ol>	At MRF Facility, daily	MRF Owner	<p>Inhouse Waste Management Plan Daily site checking</p> <p>Disposal and dispatching records</p>	<p>Site visits and checking records</p> <p>Site visit during operational period and weekly online meeting</p>	<p>NRC- E and S Officer</p> <p>Technical Expert (Envt) and NRC</p>	50
02. Noice generation during bailing process and health implication to workers	<ol style="list-style-type: none"> <li>1. Boundary limits of Noise will be maintained as per the National Standards ( 55dB (A)</li> <li>2. Providing appropriate PPEs for the workers</li> <li>3. Timely maintenance of bailing machine</li> </ol>	At MRF Facility, daily	MRF Owner	<p>Use of PPEs</p> <p>Complaints from workers</p> <p>Machine maintenance record</p>	<p>Regular Monitoring</p> <p>Site visit during operational period and weekly online meeting</p>	<p>NRC- M&amp; S Officer</p> <p>Technical Expert (Envt) and NRC</p>	100
03. Physical and Psychosocial Risk associated with Health , safety and hygiene of the workers during operations	<ol style="list-style-type: none"> <li>1. Providing sanitary facilities and access to safe drinking water and clean dining area</li> <li>2. Training on safety and proper use of personal protective equipment (PPE) and Daily safety briefing will be conducted</li> <li>3. Provision of First aid box</li> <li>4. Installation of fire extinguisher</li> <li>5. Emergency Preparedness plan and awareness on responding.</li> <li>6. Maintaining accident registry</li> <li>7. Perform medical check ups for workers</li> <li>8. Displaying Instruction Boards</li> </ol>	At MRF Facility, daily	MRF Owner	<p>Availability of adequate sanitary facilities,</p> <p>Practice of wearing PPE during operational activities Daily checking records</p> <p>Availability of First Aid box , Availability of valid Fire extinguishers ,</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 (Envt)</p>	400



Anticipated E&S Risks & Impacts	Risk Mitigation & Management Measures	Location/Timing/Frequency	Responsibility	Parameter to be monitored	Methodology, including Location & Frequency	Responsibility *	
				Emergency Preparedness plan, Training record  Accident records and follow up actions  Medical check ups records Availability of instruction boards			
04. Social risk (individuals, communities, and organizations) due to Sexual exploitation and abuse (SEA) and sexual harassment (SH)	<ol style="list-style-type: none"> <li>1. Worker grievance addressing methodology</li> <li>2. Provision of anonymous reporting mechanism along with protection measures for individuals who report</li> <li>3. Regular trainings and workshops regarding gender-based violence SEA and SH identification and mitigations</li> <li>4. Provide training on recognizing, preventing, and responding to SEA and SH for workers and communities</li> </ol>	At MRF Facility, daily	Environmental and Social officer	complaint box and Availability of management plan	Regular Monitoring  Visit during operational period and weekly meetings	NRC- E and S Officer  Technical Expert (Envt) and NRC	50
05. Potential for social issues related to labor influx	<ol style="list-style-type: none"> <li>1. Worker grievance meetings and awareness on communicable diseases, Training on gender based violence</li> </ol>	At MRF Facility, daily	Operation Manager-NRC	Availability of meeting and training records	Regular monitoring site visit and checking records	Gender specialist - NRC	

Anticipated E&S Risks & Impacts	Risk Mitigation & Management Measures	Location/Timing/Frequency	Responsibility	Parameter to be monitored	Methodology, including Location & Frequency	Responsibility *	
	2. Priority will be given to recruit workers from close proximity						
06. Complaints Due to Project	<p>4. Establish the approved Project's Grievance Redress Mechanism (GRM) and actions for the GRM</p> <p>5. Publicize the existence of the Project's GRM through campaigns, websites, billboards, etc.</p> <p>6. Ensure that the contact details are placed on notice boards at the site</p>	Project Location	Operation Manager-NRC /GESI and Safeguarding 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 &amp; S Officer NRC</p> <p>Technical Expert (Envt)</p>	100
07. Non compliance with the local regulatory requirement and workers dissatisfaction due to extensive work requirements	<p>1. Development and implement of code of conduct in line with national labor laws and ESF of the PLEASE Project</p> <p>2. Wages will be paid in accordance with ESF of the project</p> <p>3. Prevents use of all forms of forced labour and child labour</p>	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	Technical Expert( Envt) Country team and NRC	1550
08. Limited support of the Government and other stakeholders	<p>1. Identify Stakeholders and communities</p> <p>2. Conduct awareness programmes/consultations as appropriate.</p>	Project locations	Janathaks han	Participation of stakeholders	Reviewing records	Technical Expert( Envt) Country team and NRC	

## 5. Capacity Development & Training

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

01. Training on necessary health , safety and environmental best practices , First aid, emergency preparedness, Fire drills to workers
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. Survey Plan](#)
- [4. Bingiriya Deed](#)

**IV. Review & Approval**

<p>NEGOMBO RECYCLING CLUB (PRIVATE) LIMITED PV 00262712</p>  <p>..... Managing Director NISHANTHA PERERA</p> <p><b>Prepared By:</b>.....(Signature) Position: ..... Date : 01-Aug-2024</p>
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<p><b>Reviewed By:</b>  .....</p> <p>Sarojinie Jayasekara Position: Technical expert - Environment of the Country Team Date 1st Aug 2024</p>	<p><b>Approved By</b> </p> <p>Kapila Mahesh Rajapaksha, Position: Environment and Social Development Specialist. SACEP Date: 6th August 2024</p>
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