

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

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN
OF RECYCLING PLANT - MILLANIYA

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

Subproject Title:	Material Recycling Facility - Millaniya, Kalutara District
Estimated Cost:	825,127 USD
Start/Completion Date:	15.03.2024 - 31.01.2025

2. Site/Location Description

The proposed land block is located in the Kalutara District of the Western Province, within the wet zone of Sri Lanka. It is situated 150 meters from the main road and accessible via a 20-foot-wide road, which allows for the transportation of a 40-foot HQ container. Additionally, the proposed new expressway exit is located 3.5 kilometers from the land block. A 3-phase power line is available for the Granite Manufacturing factory of Lanka Zhongyuan Mining Co - pvt Ltd, which is located 100 meters from the proposed land block.

The site spans 114 perches and its surroundings feature a mixed residential and commercial land use pattern. The project site is laid in almost flat terrain with a mild slope towards its southern border; existing vegetation is predominantly rubber plantations with non perennial reeds. On the southern border of the land there is a strip of native vegetation consisting of tree such as Dawata (*Carallia brachiata*) Alstonia, Domba (*Calophyllum inophyllum*), Watakeyya (*Pandanus* Sp.) and Daul Kurudndu (*Neolitsea cassia*).

There is a strip of abandoned paddy field adjacent to the proposed land Keppu Ela and Kalu Ganga (river) are located 3.7km from the land.

(The map showing the land location, the Land Lease Agreement, Environmental Recommendations issued by the Central Environmental Authority and BOQ for the construction are included in the annex)

Population data -https://www.citypopulation.de/en/srilanka/admin/kalutara/1318_millaniya/



[1. Land in the Map](#)

3. Subproject Description and Activities

The main function of the Material Recycling Facility is to manufacture recycled plastic pellets, Wood plastics composite (WPC) compounds, and WPC Composite products catering to the local and global demand for recycled products and raw materials. The construction; Masonry , Electrical and plumbing will be outsourced.

This project activity on-site includes:

Construction phase

Whole constructions will be outsourced to the reputed service providers.

1. Clearing of land (approx.114 perch) includes, clearing site vegetation(95 rubber trees), removal of topsoil (average depth 150mm)
2. Construction of building (8576 sq.ft.)and utility building (1150 Sq.ft.) for acomodating recycling activities and wastewater treatment plant with capacity of 12 cubic meters per week.
3. Electric wiring / plumbing and sanitaryware fitting / finishing/ Painting and coloring
4. Gardening and tree planting
5. Transport and Installation of required machinery (Washing line, Pelletizer,WPC machine,Injection molding machines and ancillaries)

Operational phase

1. Baled plastic receiving and storage- The facility will receive baled plastic from MRFs and stored until usage.
2. Crushing ,washing and cleaning of plastic- Plastic will be unbaled and fed to the crushing machine and shredded into smaller pieces or flakes to increase the surface area and make it easier to clean followed by washing and drying .
3. Pelletisation of plastic - dried plastic flakes are melted and formed into pellets. These pellets are to be used as raw material for producing new plastic products - (WPC)
4. Wood Plastic Composite (WPC) production- This process combines wood fibers with plastic to create a material that's durable and versatile.
5. WPC product manufacturing- For certain products, the material is shaped using molds with injection molding processes.
6. Operation of Wastewater treatment - This includes , Sedimentation, oil and grease removal ,Aeration and FBBR (Fixed Bed Biofilm Reactor), Clarifier, sand filter and sludge tank which is efficient enough to achieve the discharge limits specified in the ER granted by the CEA.Effluent discharge standard is attached.[Environmental recommendation](#) [Effluent discharge standard](#)
7. Products and off cuts handling and storage- Product offcuts generated from the finishing section will be recycled and product will be stored until the delivery .

The water requirement for the facility would be approx. 3 Cubic meters per day and the electricity requirement approx.50000 kwh/month. The expected processing capacity of the facility is approx. 225 Mt of plastic per month. Solid waste generation including sludge would be approx 1 Mt per month.

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* ¹	
01. Disturbing the soil and vegetation including removal of 90 rubber trees during land clearance can lead to soil erosion	<ol style="list-style-type: none"> The building structure and the landscape will be developed to prevent soil erosion and sedimentation To offset the loss of rubber trees, 100 Kumbuk trees and 50 Mango trees will be planted at the site /MRF facilities. Plant strip with native plant at the edge of land will be kept intact Adequate buffer zones will be kept as per the ER 	All 16 sites (15 MRFs and Millaniya site) (within 06 Months)	NRC and MRF Owners	Developed landscape planted trees Undisturbed plant strip Maintenance of Buffer zone	Monthly site visit/ Photo evidence Regular Monitoring	Technical Expert (Envt) Country team ES Officer, NRC	500
02 Land pollution due to discharge of waste water generated during construction	<ol style="list-style-type: none"> Construction waste water will be directed to a pit 	Construction site during concreting and cement works (01 Month)	Contractor and the Environmental and Social officer	Availability of the pit	Monthly site visit/ Photo evidence Regular Monitoring	Technical Expert (Envt) Country team ES Officer, NRC	
03. Public nuisance due to noise and vibration during land clearing and site	<ol style="list-style-type: none"> The activities will be carried out during day time with minimal 	During Land clearing and Earthwork - Earth filling and	Contractor and the Environmental	Noise monitoring records	Monthly site visit/ Photo evidence	Technical Expert (Envt)	

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* ¹	
preparation, Excavation and earthworks fabrication and installation of roofs, windows and ceilings construction and machine installation	<p>disturbance to the neighbors.</p> <ol style="list-style-type: none"> Noise levels at the boundary of the Land will be maintained below 75dB(A) as per the site recommendations issued by the CEA Public Complaint Box will be maintained Selection of less Noisy Equipment (At least D4 type machines will be used to minimize the noise. 	compaction, and fabrication (intermittently one to two Months during construction and machine installation)	and Social office	Availability of complaint box. Actions taken in response to complaints	Regular Monitoring	Country team ES Officer, NRC	
04. Soil and water contamination due to Solid waste accumulation during the construction and Public nuisance due to creating vector breeding grounds	<ol style="list-style-type: none"> Segregation of solid waste into hazardous, non-hazardous and reusable waste Disposal of the hazardous waste according to authorized method Non recyclable Construction waste will be disposed with Local authority as per the ER Vector breeding grounds will be prevented 	At site during construction period (02 months)	Contractor	Availability of the waste management plan and its implementation Daily checking records	Daily process inspections Monthly site visit	ES Officer, NRC Technical Expert (Envt) Country team	100

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* ¹	
05. Hazardous chemicals and chemical containers lead to health implications and damage to the environment	<ol style="list-style-type: none"> 1) Designated area for the chemical storage 2) Contaminated containers will be taken back by the service provider 3) Provision of suitable PPEs in handling and disposing waste 	At site/ Painting and coloring and application of anti termite and pest control	Contractor and the Environmental and Social officer	Storage practice of chemicals Use of PPEs	Site visits and daily process observations Monthly visit	ES Officer, NRC Technical Expert (Env) Country team	100
06. Air pollution due to dust from site preparations, Loading and unloading of construction materials, vehicle movement, Excavations and earthworks, fabrication and installation of roof. and ceilings construction and machine installation can cause public nuisance and health implications to workers	<ol style="list-style-type: none"> 1) The loaded material in the truck will be properly covered with a tarpaulin to minimize dust blowing 2) Dust in the surrounding areas will be controlled through water sprinkling when necessary including loading and unloading of construction materials 3) Use proper safety gears like N 95 masks, for the protection of the waste workers 4) Machines will be maintained in optimal condition to minimize emissions 5) This site is situated in a non-residential area and however, Complaint Box will be in place. 	At site . Intermittently During Land clearing and Earthwork - Earth filling and and compaction, and fabrication, transportation (intermittently one to two weeks during construction	Contractor and E&S Officer	Wearing PPE during the work Availability of complaint box and actions taken in response to complaints	Regular Monitoring Monthly site visit and photo evidence	ES Officer, NRC Technical Expert (Env) 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* ¹	
07. Physical and Psychosocial Risk associated with Health and safety of the workers during construction.	<ol style="list-style-type: none"> 1. Provision of PPE, Training on safety and proper use of personal protective equipment (PPE) and Daily safety briefing will be conducted 2. Safe work procedures and maintenance of equipment will be introduced. 3. Maintaining Accident register 4. Barricade tape will be in place to prevent workers from entering risk areas without attention. 5. Safety kits, Emergency Health services, First Aid Kits, Emergency exit doors, and fire extinguishers will be provided 6. Provision of workers with adequate and well-ventilated working area, clean eating areas, and separate sleeping (if necessary) 7. Separate quarters for male and female workers (Priority in recruitment will 	At site during construction period (02 months)	Contractor and the Environmental and Social officer	<p>Training records</p> <p>Wearing PPE during construction activities</p> <p>Availability of First Aid box , Accident registry, Fire extinguishers,</p> <p>Daily checking of water accumulated places and cleaning</p>	<p>Daily inspection</p> <p>Monthly Site visit By country team and photo evidences</p> <p>Daily records indicating the topics discussed and site examination records</p> <p>Photos/ physical checking</p>	<p>ES Officer, NRC</p> <p>Technical Expert (Env) Country team</p>	500

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* ¹	
	be given to workers from the local area.)						
8. Social and health impacts related to worker hygiene condition	<ol style="list-style-type: none"> 1. Provision of clean sanitation facilities and access to safe drinking water 2. Workers grievance box will be maintained 3. Development and implementation of Standard Operating Procedure (SoP) for Protection from Sexual Exploitation and Abuse (PSEA) which include Code of Conduct (CoC), Terms of Reference (ToR) for PSEA focal points, and visibility materials for reporting lines 	At site during construction period (02 months)	Contractor and the Environmental and Social office	<p>Availability of adequate sanitary facilities and access for safe drinking water</p> <p>Availability Workers Grievance Box and</p>	<p>Daily Monitoring</p> <p>Observations during site visit,</p>	<p>ES Officer, NRC</p> <p>Technical Expert (Envt) Country team</p>	100
9. Emotional ,Physical and Social risk due to Sexual exploitation and abuse (SEA) and sexual harassment (SH)	<ol style="list-style-type: none"> 1. Complaint Box and Worker grievance addressing methodology will be in place 2. Appointing a point of contact for PSEA. 3. Provide training on recognizing, preventing, and responding to SEA and 	At site during construction period	Contractor and the Environmental and Social office, Gender Officer	<p>Complaint box</p> <p>Actions taken in response to complaints</p> <p>Availability of management plan</p>	Monthly site visit	<p>ES Officer, NRC / Technical Expert (Envt) Country team</p>	100

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* ¹	
	SH for contractors and communities			Appointed contact point and records			
10. Potential for social issues related to labor influx	<ol style="list-style-type: none"> 1. Worker grievance meetings will be held regularly 2. awareness on communicable diseases and awareness on Gender based violence will be conducted 3. Ensure that the contact details of the PSEA focal point are placed on notice boards in the project location 	At site during construction period	Contractor and the Environmental and Social officer	Availability of meeting and awareness records	Monthly site visits and record reviewing	ES Officer, NRC /Technical Expert (Envnt) Country team	
11. 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	Facility Manager and HR Officer	Availability and implementation of code of conduct Payrolls Site visit and reviewing received complains	Regular Monitoring	Technical Expert (Envnt) Country team and NRC	N/A

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* ¹	
12. 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 (Env't) Country team and NRC	1750

* **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 & 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	
1. Water and soil pollution due to quality of wastewater generated from the cleaning and washing of plastic	<ol style="list-style-type: none"> 1. Treating Wastewater generated from the cleaning process to the standards stipulated in the environmental recommendations and reused for the industrial activities. 2. Water Audit will be conducted after commencement of the facility. 3. All effluent arising from domestic activities shall be discharged into a properly constructed soakage pit and will be removed periodically through a gully bowser service. 	At the site / Wastewater will be continually treated and tested as per the requirement specified in the Environmental recommendation issued (4.1) by the CEA	NRC- Facility Manager	Parameters specified in the Environmental recommendation	Analytical reports of treated water once in 3 months	Technical Expert (Envt) Country team ES Officer, NRC	6645
2. Public nuisance due to the Noise and vibration generated during the machine operations of the facility and health implications	<ol style="list-style-type: none"> 1. Engineering measures (installation at enclosed chamber with the appropriate muffler system) will be taken in mounting the crusher 	<p>At site/during the operation of machines and bidding of the machine purchasing</p> <p>At site/ During the operation of the facility</p>	NRC- Facility Manager	<p>Reports, public complaints</p> <p>Noise level at the factory and at the boundary</p>	Examination of Documents/ reports/ complaints	<p>Technical Expert (Envt) Country team</p> <p>ES Officer, NRC</p>	250

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	
	<p>machine to minimize vibration</p> <ol style="list-style-type: none"> specifying low noise emissions as a requirement for machinery in the bidding process Activities limited to day time and maintaining 55dB (A) level of Noise at the boundary Providing Necessary PPE for the workers 			Use of PPE	Noise measurement Reports		
3. Soil and water contamination and bad odor due to the Solid waste Accumulation from the process and daily activities	<ol style="list-style-type: none"> Segregation of solid waste into decomposable, recyclable materials and non-recyclable waste; Non recyclable Waste generated will be disposed with Local Authority (segregated degradable will be composted) and open 	<p>At Facility, daily</p> <p>Local Authority , Millaniya P S</p> <p>At INSEE Cement Kiln Puttalam</p>	Facility Manager	<p>Inhouse Waste Management Plan</p> <p>Disposal records</p> <p>Destruction certificate issued by INSEE</p>	<p>Monthly Site visits</p> <p>Regular monitoring</p>	<p>Technical Expert (Envt) Country team</p> <p>ES Officer, NRC</p>	250

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	
	<ul style="list-style-type: none"> burning will be prevented 3. Sludge generated from the Wastewater treatment plant to be disposed at INSEE (Licensed Co processing facility) 4. Off cuts for the product manufacturing to be directed for recycling process 5. Vector breeding grounds will be prevented 6. Chemical and hazardous chemical contaminated plastic cans and plastic materials will not accepted to the facility 			Process records			
4. Physical, Psychosocial and Hygienic Risk risk associated with Health , safety and hygiene of the workers during operations.	1. Providing required PPE, Preparation of Guidelines on safety and Daily safety briefing to the workers	At Recycling Facility, daily	Facility Manager	Workers wearing PPE during operational activities and sign boards	Monthly site visits include physical inspections and record-keeping s and	Technical Expert (Env't) Country team	500

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	
	<ol style="list-style-type: none"> 2. Chemical and hazardous chemical contaminated plastic cans and plastic materials will not accepted to the facility 3. Conducting frequent medical check ups for employees 4. Training on Safeguard 5. Accident reporting mechanism 6. Training on First aid and necessary First aid materials are readily available to ensure prompt response to any medical needs. 7. Training on combating fire and installation of appropriate fire extinguishers and Fire Hydrant 8. Emergency Preparedness plan and Training will be prepared and fire 			<p>Training records</p> <p>Accident registry</p> <p>Availability of First Aid box and training records</p> <p>Availability of training records and Fire extinguishers within its validity period,</p> <p>Emergency Preparedness plan and Training records</p> <p>Availability of adequate</p>	discussion with employees	Regular Monitoring by E&S Officer 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	
	<p>certification will be obtained before start industrial activities</p> <p>9. Providing sanitary facilities; Separate washing facilities shall be provided for male and female workers and access to safe drinking water</p> <p>10. Cleaning and good housekeeping practice will be followed</p> <p>11. Display Instruction boards</p>			sanitary facilities and safe drinking water, House keeping and cleaning checklist, Instruction boards			
5.Social Issues (Individual/ community) due to Sexual exploitation and abuse (SEA) and sexual harassment (SH)	<p>1. A worker grievance redress methodology, incorporating focal points for both genders and an effective referral mechanism, will be adopted</p> <p>2. Provision of anonymous reporting and complaining system along with protection</p>	At site	Facility Manager and the Environmental and Social officer	<p>Availability of complaint box and Availability of grievance management plan</p> <p>Training records</p>	Monthly site visit	Regular monitoring by Safeguard Officer - NRC	150

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	
	<p>measures for individuals who report</p> <ol style="list-style-type: none"> Provide training on recognizing, preventing, and responding to SEA and SH for workers and communities Establishment of code of conduct 			Actions taken in response to complaints			
6. Potential for social issues related to labor influx	<ol style="list-style-type: none"> Worker grievance redress meetings and awareness on communicable diseases, Awareness on gender based violence Priority will be given to recruiting workers from the local community 	At site	Facility Manager and the Environmental and Social officer	<p>Availability of meeting and training records</p> <p>Records on Gender Awareness</p> <p>Selection criteria for recruitments</p>	Monthly Site visit and review the documents	Gender Specialist - NRC	150
7. Gender discrimination in job opportunity and wage	<ol style="list-style-type: none"> Preparation of Non discriminating guidelines for recruitment process and operations affecting all level of workers 	At site	Facility Manager and HR Officer	Availability of HR Policy Grievance Redress Mechanism	Regular Monitoring	Gender N/A specialist of the PLEASE project	N/A

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	
	<ul style="list-style-type: none"> 2) Equal wages to male and female workers/employee 3) Complain box/issue box installation 					Gender Specialist NRC	
8. Non compliance with the local regulatory requirement and workers dissatisfaction due to extensive work requirements	<ul style="list-style-type: none"> 1. Development and implement of code of conduct in line with national labor laws and EMSF 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	Facility Manager 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	N/A
9. Complaints Due to Project	<ul style="list-style-type: none"> 1. Establish the approved Project's Grievance Redress Mechanism (GRM) and actions for the GRM 2. Ensure that the contact details of the PSEA focal point are placed on notice 	Project Location/Throughout the operational period	Facility Manager	Number of community complaints	Monitoring method: Grievance Redress Mechanism, Complaint log and implementation	Technical Expert (Envt) Country team and NRC	300

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	
	boards in the project location				Monitoring period: Monthly		
10. 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 (Env't) Country team and NRC	1250

* **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 for 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 Process Steps(Plastic receiving feeding to washing line, Pelatising, WP Compounding, product manufacturing) ,quality controls, housekeeping, environmental protection and monitoring and waste management,Operations of wastewater treatment Plant)

6. Implementation Schedule and Cost Estimates

	Timeline						Cost - USD
	July	Aug	Sep	Oct	Nov	Dec	
Mitigation measures - During construction stage (Noise testing PPE, First aid facilities, Social and sanitary facilities,Tree planting etc proposed to mitigate the impacts of the activities)							1600
Machine installation (PPE, Noise Measurements)							100
Facility operation and management(Noise and Vibration controls and measurements,Solid Waste Management and disposal cost, first aid , emergency controls, addressing social and gender base activities, PPE							1000
Preparation and displaying instruction boards							300
Wastewater treatment and Analysis							6645
Fire controls and extinguishes							300
Capacity development and training							300
Stakeholder awareness and consultation							3000

7. Attachments

- [1.Land in the Map](#)
- [2. Land Lease Agreement](#)
- [3.Environmental Recommendation-CEA](#)
- [4. Survey Plan Millaniya](#)
- [5. Recycling Hub Millaniya Fire Clearance recommendations](#)
- [6. Labour department recommendations](#)
- [7. UDA approval](#)
- [8. BOQ For the facility](#)

IV. Review & Approval

NEGOMBO RECYCLING CLUB (PRIVATE) LIMITED
PV 00262711



.....
Managing Director
NISHANTHA PERERA

Prepared By:

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