



PROJECT DESIGN DOCUMENT FORM FOR SMALL-SCALE AFFORESTATION AND REFORESTATION PROJECT ACTIVITIES (CDM-SSC-AR-PDD) - Version 01

CLEAN DEVELOPMENT MECHANISM PROJECT DESIGN DOCUMENT FORM FOR SMALL-SCALE AFFORESTATION AND REFORESTATION PROJECT ACTIVITIES (CDM-SSC-AR-PDD) Once amendments or new simplified methodologies have been approved this document needs to be updated

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SECTION A. General description of the proposed <u>small-scale A/R CDM project activity:</u>

A.1. Title of the proposed <u>small-scale A/R CDM project activity</u>:

Low income community mangrove reforestation project in Fiji

A.2. Description of the proposed small-scale A/R CDM project activity:

The project activity aims to remove CO_2 through reforestation of mangrove along coastal zones in Lomawai village, south west of Vitilevu Island. The expected area subject to plantation is 250 ha, and estimated amount of CO_2 removal during the 30 year period for this project is 100,892 tCO₂. The project activity well qualifies for small scale A/R CDM scheme since the expected annual removal of the project activity is estimated to be 3,363 tCO₂ under the threshold value of 8,000 t CO₂ per annum. It also satisfies the other requirement of SS A/R CDM project activity for involvement of low income community.

This project scheme is expected to provide a number of benefits to its surrounding environment, society, and economy. Planting mangrove could result in not only removal of CO_2 but alleviate erosion of coastal line. The project activity will produce synergetic effects by fulfilling both "countermeasures against global warming" and "adaptation" at the same time. In other words, addressing socioeconomic issues and environmental conservation will mutually create a positive cycle, and the continuance of project activity will contribute to the sustainable development of the host country especially the local communities.

In addition to the abovementioned benefits, the project activity would contribute to the following benefits:

- 1) Improving fish catches (fish, prawn, crabs etc) with habitat formation through mangrove forests,
- 2) Creation of employment from plantation and management,
- 3) Increase revenue (land lease costs) for land owner from land lease income,
- 4) Adaptation to global warming (dissolve the vulnerability caused by coastal erosion due to sea level rise),
- 5) Breakwater against Tsunamis (demonstrated by Sumatra earthquake),
- 6) Protection and improvement of biodiversity,
- 7) Building capacity (acquiring knowledge and skills necessary for plantation and management), and
- 8) Effective use as tourism resource



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A.3. Project participants:

Name of Party involved (*) ((host) indicates a host Party)	Private and/or public entity(ies) project participants (*) (as applicable)	Kindly indicate if the Party involved wishes to be considered as project participant (Yes/No)
Republic of the Fiji Islands	Salt Committee of Lomawai	No
(host)	village	
Japan	Taishi Design Office Co. Ltd	No

A.4. Technical description of the small-scale A/R CDM project activity:

A.4.1. Location of the proposed <u>small-scale A/R CDM project activity</u>:

A.4.1.1. Host Party(ies):

Republic of the Fiji Islands

A.4.1.2. **Region/State/Province etc.:**

Viti Levu Island

A.4.1.3.	City/Town/Community etc:

Lomawai village



Figure 1: Map of the project site Source: Fiji Government Online Portal (http://www.fiji.gov.fj/publish/fiji map.shtml)

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This template shall not be altered. It shall be completed without modifying/adding headings or logo, format or font.



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A.4.1.4. Detail of geographical location and <u>project boundary</u>, including information allowing the unique identification(s) of the <u>proposed small-scale A/R CDM project</u> activity:

The project activity covers 250 ha of intertidal area along the coastal area of Lomawai village. The figure below shows geographical location and project boundary. The coordinates of the corners of the project site are indicated in the table below. The corners will be clearly marked on the ground with stakes. $177^{\circ} 15'$ $177^{\circ} 16'$ $177^{\circ} 17'$ $177^{\circ} 18'$

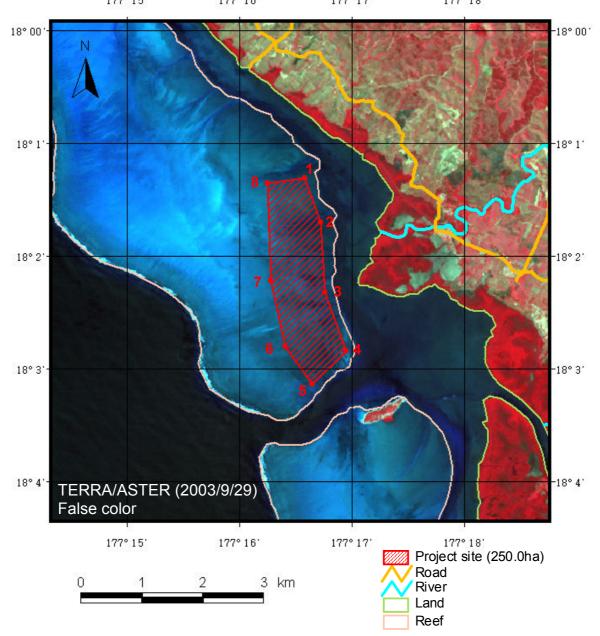


Figure 2: Location of the project site

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NO	Lon.	Lat.
1	177.275866	-18.021895
2	177.278234	-18.028334
3	177.278896	-18.038700
4	177.281965	-18.047343
5	177.276925	-18.052141
6	177.272965	-18.046643
7	177.270854	-18.037026
8	177.270440	-18.022722

Table 1: Coordinate for the corners of the project site

A.4.1.5. A description of items on present environmental conditions of the area, which include information on climate, soils, main watershed, ecosystems, and the possible presence of rare or endangered species and their habitats:

Fiji lies in the center of the Pacific Ocean midway between the Equator and the South Pole and between longitudes 174° east and 178° west of Greenwich and latitudes 12° south and 22° south. Fiji's Exclusive Economic Zone contains approximately 330 islands of which about a - third are inhabited. It covers about 1.3 million square kilometers of the South Pacific Ocean. Fiji's total land area is 18,333 square kilometers. There are two major islands - Viti Levu which is 10,429 square kilometers and Vanua Levu 5,556 square kilometers. Other main islands are Taveuni (470 sq km), Kadavu (411 sq km), Gau (140 sq km) and Koro (104 sq km). 87.9% of land is owned by indigenous Fijians while 3.9% is State land. Freehold land comprises 7.9% and Rotuman land is 0.3%. The capital is Suva and it is one of the two cities in Fiji. The other city is Lautoka and both are located on the island of Viti Levu.

Climate:

Fiji has tropical marine climate with only slight seasonal temperature variation. Maritime climate moderates the temperature of Fiji. It has rainy season during months of November to April and dry season during May to October. The temperature drops slightly during the dry season with the trade wind.

Precipitation in Fiji varies in areas. The notable characteristics are higher precipitation in eastern part and lower in western part of the country. In the eastern part, squall frequently brings abundant rainfall amounts up to 3,000mm per annum while in western part, drier climate persists with precipitation ranges 1,600 - 2,000mm per annum.

Geology:

Before the Late Miocene, roughly 8 million years (Ma) ago, the Pacific crust was subducted from the east along this plate boundary, with Fiji forming part of an extended Outer Melanesian island arc system, the Vityaz arc, that incorporated the Solomon Islands, New Hebrides, Fiji and Tonga island arcs. Remnants of this subduction zone are preserved as part of the Vityaz Trench, whilst Eocene-Miocene cores of the ancient arc system form part of the geological basement in Tonga ('Eua), Fiji (Viti Levu) and Vanuatu.



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Subduction along the Vityaz arc-trench system was partially blocked through the arrival of a thick sequence of oceanic crust (Ontong Java Plateau) at the portions of the trench along the Solomon Islands and northern New Hebrides. Subduction was effectively immobilized and later reversed in the areas to the north and west of the Fiji arc. Shortly after this reversal, back-arc spreading began to the west of Fiji, forming the North Fiji Basin, with clockwise rotation of the New Hebrides Arc to the southwest, away from Fiji, and anticlockwise rotation of the Fiji Platform.

Further breakup of the arc occurred in more recent times (about 5.5 Ma) with the initiation of intra-arc extension behind the Tonga Trench. This caused the opening of the Lau Basin, separating the remnant Lau Ridge from the active Tofua Arc in Tonga.

Flora/Fauna:

Fiji's flora and fauna are relatively few in number but are of exceptional scientific interest because of the higher proportion of endemic forms - i.e. those found no where else in the world. Ten per cent of the 476 indigenous Fijian plant species identified are endemic. Fiji also has a few rare reptiles and birds. Notable of this, is the Crested Iguana, found only in some parts of Fiji namely Yadua Taba in Bua and the Yasawas. Other rare species include the Fiji burrowing snake, Fiji petrel, the pink billed parrot finch, the red throat lorikeet and the long legged warbler.

A.4.2. Species and varieties selected:

In the project activity, the following mangrove species are planned to be used for reforestation over 250 ha.

- Bruguiera gymnorrhiza (local name: Lai Lai),
- Rhizophora samoensis (local name: Togo dina) and
- Rhizophora stylosa (local name: Togo voli)

A.4.3. Specification of the greenhouse gases (GHG) whose emissions will be part of the proposed <u>small-scale A/R CDM project activity</u>:

The potential sources of GHG emissions resulting from project activity are CO_2 , N_2O , and CH_4 (methane).

Those gases would result from the following activities:

- CO₂: It would be emitted from transportation of seedlings and labor to atolls and intertidal zones of project site. It would be calculated from fuel consumption of using a boat. It would also be emitted from desiccation of soil when sediments will be accumulated on the project site. The CO₂ emissions would be calculated by applying default value which is presented in "Good Practice Guidance for Land Use, Land-Use Change and Forestry" (IPCC GPG for LULUCF) of the Intergovernmental Panel on Climate Change (2003).
- N₂O: It would be emitted from desiccation of soil when sediments will be accumulated on the project site. The calculation of the N₂O emissions would be done applying default value which is presented in IPCC GPG for LULUCF.



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	Source	Gas		Justification / Explanation
	On-site fossil fuel	CO_2	Included	May be an important emission source
	consumption due to	CH ₄	Excluded	Excluded for simplification.
	the project activity	N ₂ O	Excluded	Excluded for simplification.
Project	Decomposition of	CO ₂	Excluded	Excluded for simplification.
Activity	organic material	CH ₄	Excluded	Excluded for simplification.
	under water	N ₂ O	Excluded	Excluded for simplification.
	Desiccation of soil	CO_2	Included	Default value is applied to estimate the amount
		N ₂ O	Included	Default value is applied to estimate the amount

A.4.4. <u>Carbon pools</u> selected:

AGB, BGB, and soil organic carbon

A.4.5. Assessment of the eligibility of land:

According to the result of participatory rural appraisal study conducted by the project participants, the areas of the land have not been forest since the end of 1989 till present. Therefore, the project site is eligible for A/R CDM project activity.

Although Fijian government has not released its values for forest definition, the area which will be forested has no trees and would not be classified as forest land. At the same time, mangrove forest reforested through this project activity will have crown density of more than 90% and tree height of around 5 meters in land which has 250 ha. This would satisfy the forest definition of the government in any ways.

A.4.6. A description of legal title to the land, current land tenure and land use and rights of access to the sequestered carbon:

The land is owned by the near by community Lomawai village. The representative for the communal management for the land is the local Salt Committee which has communal right over the site.

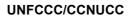
A.4.7. Type(s) of small-scale A/R CDM project activity:

Reforestation project in wetland

A.4.8. Technology to be employed by the proposed small-scale A/R CDM project activity:

The project activity employs the direct seeding method for planting mangrove seeds. The seeds are collected from nearby seed orchards and the collected seeds are directly planted into intertidal zones with in the project boundary.

Depending on species, the project participants plan to establish a nursery to grow seedlings to be able to harden them to have more adaptability of the mangrove when planting.





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The below photo shows planted seeds of mangrove in an intertidal zone.



Figure 3: Planted seeds in an intertidal zone

A.4.9. Approach for addressing non-permanence:

In addressing the issue of non-permanence, project participants have chosen the issuance of ICERs for the net anthropogenic GHG removals by sinks achieved by the proposed A/R CDM project activity.

A.4.10. Duration of the proposed small-scale A/R CDM project activity / Crediting period:

Duration of the proposed project activity: 30 years Crediting period: 30 years

A.4.10.1. <u>Starting date of the proposed small-scale A/R CDM project activity</u> and of the <u>(first) crediting period</u>, including a justification:

2007

A.4.10.2. Expected <u>operational lifetime of the proposed small-scale A/R CDM</u> project activity:

At least 30 years

A.4.10.3. Choice of crediting period and related information:

The crediting period chosen for the project is 30-years.



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A.4.10.3.1. <u>Renewable crediting period</u>, if selected:

This option is not selected.

A.4.10.3.1.1. Starting date of the first <u>crediting period</u>:

This option is not selected.

A.4.10.3.1.2. Length of the first <u>crediting period</u>:

This option is not selected.

A.4.10.3.2	Fixed crediting period, if selected:	

A.4.10.3.2 .1. Starting date:

2007

A.4.10.3.2.2. Length:

30 years

A.4.11. Brief explanation of how the <u>net anthropogenic GHG removals by sinks</u> are achieved by the proposed <u>small-scale A/R CDM project activity</u>, including why these would not occur in the absence of the proposed <u>small-scale A/R CDM project activity</u>, taking into account national and/or sectoral policies and circumstances:

* How the net anthropogenic GHG removals by sinks are achieved:

The project site is barren coastal land where no vegetation has been recognized. The project activity is to reforest the area where no vegetation exists and this would result in net anthropogenic GHG removals by sinks.

*Why these would not occur in the absence of the proposed small-scale A/R CDM project activity:

This would not occur in the absence of the proposed small-scale A/R CDM project activity because in the project area, there is no custom to plant mangroves and planting mangroves would cost labor, time and money to the local people who live off subsistence economy. The Lomawai village is not connected to the grid system and most people engage in fishery and agriculture and would not be able to afford spending time and labor to planting mangroves which would not give them direct and benefits in the short term.

Without incentives to gain income from sales of ICERs, it would be impossible to implement project activity.



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A.4.11.1. Estimated amount of <u>net anthropogenic GHG removals by sinks</u> over the chosen <u>crediting period</u>:

Expected net anthropogenic GHG removals by the sinks during the crediting period (30 years) are $100,892 \text{ t } \text{CO}_2$. The annual net anthropogenic GHG removals by the sinks are expected to be 3,363 t CO₂.

Years	Annual net anthropogenic GHG removals by sinks in tonnes of CO2e
2007	104
2008	291
2009	592
2010	1,038
2011	1,648
2012	2,327
2013	3,090
2014	3,887
2015	4,658
2016	5,349
2017	5,915
2018	6,327
2019	6,575
2020	6,660
2021	6,599
2022	6,412
2023	6,128
2024	5,771
2025	5,366
2026	4,936
2027	4,497
2028	4,064
2029	3,647
2030	3,253
2031	2,886
2032	328
2033	22
2034	-254
2035	-501
2036	-721
Total estimated net anthropogenic GHG removals by sinks (tonnes of CO ₂ e)	100,892
Total number of crediting years	30
Annual average over the crediting period of estimated net anthropogenic GHG removals by sinks (tonnes of CO ₂ e)	3,363



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A.4.12. Public funding of the proposed <u>small-scale A/R CDM project activity</u>:

No public funding is involved in the project activity.

A.4.12.1. Confirmation that the <u>small-scale</u> A/R CDM <u>project activity</u> is not a <u>debundled</u> component of a larger project activity:

None of the project participants has experience in developing small-scale A/R CDM project activity, therefore, there is no project occurring in the past developed by them or there is no project nearby the proposed project activity.

SECTION B. Application of a <u>baseline and monitoring methodology</u> :

B.1. Title and reference of the <u>approved baseline and monitoring methodology</u> applied to the proposed <u>small-scale A/R CDM project activity</u>:

Small scale baseline and monitoring methodology for afforestation and reforestation project in intertidal zone.

B. 2. Justification of the choice of the methodology in Appendix B of the CDM simplified modalities and procedures for small-scale A/R project and its applicability to the proposed <u>small-scale A/R CDM project activity</u>:

The proposed A/R CDM project activity can apply the proposed methodology because:

- The baseline approach "Existing or historical, as applicable, changes in carbon stock in the carbon pools within the project boundary" is the most appropriate option for determination of the baseline scenario for the proposed project activity.
- The type of the proposed project activity is mangrove reforestation in intertidal zones and the methodology is designed for the same type of project activities.
- Changes expected in the carbon pools are limited to above-ground, below-ground biomass, and soil organic carbon which meets the structure of the methodology.

B. 3. Application of baseline methodology to the proposed small-scale A/R CDM project activity:

Assessment of significant changes in carbon stocks

For the proposed project activity, baseline net GHG removals by sinks are assumed to be zero.

In order to assess if significant changes in the baseline carbon stocks within the project boundary have occurred in absence of the project activity, project participants shall assess whether changes in carbon stocks in the baseline land-use type (wetland), in particular the living biomass of woody perennials¹

¹ Woody perennials consist of the non-tree vegetation and shrubs that are present in wetlands below the threshold (in terms of canopy cover, minimum area and tree height) used to define forests.

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(above- and below-ground biomass) and below-ground biomass of wetlands, are expected to be significant and provide documentation to prove this, for example, by expert judgement. Based on the results of this assessment:

- a) If significant changes in the carbon stocks, in particular the living biomass of woody perennials (above- and belowground biomass) and below-ground biomass in wetlands, are not expected to occur in the absence of the project activity, the changes in carbon stocks shall be assumed to be equal to zero.
- b) If the carbon stock in the living biomass of woody perennials (above- and belowground biomass) or below-ground biomass in wetlands is expected to decrease in the absence of the project activity, the baseline net greenhouse gas removals by sinks shall be assumed to be equal to zero. In above case, the baseline carbon stocks in the carbons pools are constant at the level of existing carbon stock measured at the start of the project activity.
- c) Otherwise, baseline net greenhouse gas removals by sinks shall be equal to the changes in carbon stocks from the living biomass of woody perennials (above- and below-ground biomass) or belowground biomass in wetlands that are expected to occur in the absence of the project activity and shall be estimated using the attached simplified methodology.

The project site for the project activity has no vegetation and there would be no significant change of carbon pools as they had been constant over the decades.

The project activity has determined the baseline net GHG removals by sinks to be zero.

Stratification of the project area

As suggested in the methodology, estimating the baseline net GHG removals by sinks should proceed in accordance with section 4.3.3.2 of the IPCC GPG for LULUCF. It suggests to collect basic background information and data about the important bio-physical, and socio-economic characteristics of the project area. The information and data include, e.g.,: land-use history; maps of soil, vegetation, and topography; and land ownership.

For the project activity, all the area subject to reforestation has high similarity as it is all intertidal zones of the coastline.

Land use history has been the same for the entire site. It has been barren land as tidal range rises and falls and no vegetation could have occupied the site. Local community has not been using the site as it is not suitable for agriculture or other uses.

The most of the site has the similar soil property. Soil type can be classified as mud clay which contains reduced sulfides.

Topography is also similar in most of the site as it situates along the coastal line, the site is flat with no inclination.

Estimating the baseline net GHG removals by sinks

Baseline net GHG removals by sinks will be determined by the equation:

$$B_{(t)} = \sum_{i}^{I} (B_{A(t)i} + B_{B(t)i})^* A_i$$
(1)

where:

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- $B_{(t)}$ = carbon stocks in the living biomass pools within the project boundary at time t in the absence of the project activity (t C)
- $B_{A(t)i}$ = carbon stocks in above-ground biomass at time t of stratum i in the absence of the project activity (t C/ha)
- $B_{B(t)i}$ = carbon stocks in below-ground biomass at time t of stratum i in the absence of the project activity (t C/ha)
- A_i = project activity area of stratum *i* (ha)
- i = stratum i (I = total number of strata)

Actual net greenhouse gas removals by sinks

Actual net GHG removals by sinks consider the changes in living biomass and CO₂ and N₂O emission from desiccation of soil for the project scenario. The stocks of carbon for the project scenario at the starting date of the project activity² (t=0) shall be the same as the baseline stocks of carbon at the starting date of the project (t=0). For all other years, the carbon stocks within the project boundary at time t ($N_{(t)}$) shall be calculated as follows:

$$N_{(t)} = \sum_{i}^{I} (N_{A(t)i} + N_{B(t)i}) * A_{i}$$
(2)

where:

 $N_{(t)}$ = total carbon stocks in biomass at time *t* under the project scenario (t C) $N_{A(t)i}$ = carbon stocks in above-ground biomass at time *t* of stratum *i* under the project scenario (t C/ha) $N_{B(t)i}$ = carbon stocks in below-ground biomass at time *t* of stratum *i* under the project scenario (t C/ha) A_i = project activity area of stratum *i* (ha) i = stratum *i* (*I* = total number of strata)

GHG emissions from desiccation of soil shall be estimated through the following equations:

$$N_{E(t)} = \left(EF_{drain_{C}} * 44/12 + EF_{drain_{N}} * (44/28) * 310/1000\right) * A_{drain(t)}$$
(3)

where:

where.		
$N_{E(t)}$	=	GHG emissions from desiccation of soil at time t under the project scenario (t CO_{2-e}/yr)
EF_{drain_C}	=	C emission from desiccation of soil (t-C/ha/yr)
EF_{drain_N}	=	N emission as N ₂ O from desiccation of soil (kg-N ₂ O-N/ha/yr)
$A_{drain(t)}$	=	Desiccated project activity area at time t under the project scenario (ha)
44/12	=	Conversion factor from ton C to ton CO_2 equivalent (t $CO_2/t C$)
44/28	=	Conversion factor from ton N to ton N ₂ O equivalent (t N ₂ O/t N)
310	=	GWP for N_2O (t $CO_2/t N_2O$)

 $^{^{2}}$ The starting date of the project activity should be considered to be the point in time when the land is prepared for the initiation of the afforestation or reforestation project activity. In accordance with paragraph 23 of the modalities and procedures for afforestation and reforestation project activities under the CDM, the crediting period shall begin at the start of the afforestation or reforestation project activity under the CDM.



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Stratification for the project scenario shall be undertaken in accordance with section 4.3.3.2 of the IPCC GPG for LULUCF. The calculations shall be performed for each stratum.

B. 3. 1. Description of how the <u>actual net GHG removals by sinks</u> are increased above those that would have occurred in the absence of the registered <u>small-scale A/R CDM project</u> <u>activity</u>:

As briefly mentioned in the Section A.4.11., the followings are the reasons can be explained:

How the net anthropogenic GHG removals by sinks are achieved:

The project site is barren coastal land where no vegetation has been recognized. The project activity is to reforest the area where no vegetation exists and this would result in net anthropogenic GHG removals by sinks.

As discussed in the previous section, the baseline net GHG removals by sinks are assumed to be zero since there has been no vegetation on the proposed project site and would no vegetation in the future because the site proposed is highly saline land where no plants can survive except mangrove.

Why these would not occur in the absence of the proposed small-scale A/R CDM project activity:

The reforestation of mangroves would not occur in the absence of the proposed small-scale A/R CDM project activity because of the following reasons:

- 1) In the project area, there is no custom to plant mangroves. There would be customary barrier in terms of planting mangroves which no body in the area has done. At the same time, local people do not have knowledge for regeneration of mangrove forest.
- 2) There would be financial barrier to start the project activity. Planting mangroves would cost labor, time and money to the local people who live off subsistence economy. The local people would have difficulty in obtaining loans for project activity which would not give them enough return to pay back the interest rates.
- 3) In addition, the Lomawai village is not connected to the grid system and most people engage in fishery and agriculture and would not be able to afford spending time and labor to planting mangroves which would not give them direct benefits in the short term.

For the small-scale A/R CDM project activity, project participants need to demonstrate that the project activity faces one barrier out of barriers listed in the Appendix B of the "Revised simplified baseline and monitoring methodologies for selected small-scale afforestation and reforestation project activities under the clean development mechanism (AR-AMS0001 (Version 03))". Above barriers would satisfy the demonstration of additionality.

Without incentives to gain income from sales of ICERs, it would be impossible to implement project activity.

B.3.2. Detailed <u>baseline</u> information, including the date of completion of the baseline study and the name of person(s)/entity(ies) determining the <u>baseline</u>:

Completion of the baseline study: Date of 1 March 2007



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Name of person(s)/entity(ies) determining the baseline: - Namio TANI Taishi Design Office Co. Ltd

- Kazuko YAMAGUCHI and Tatsushi HEMMI Pacific Consultants Co., Ltd.

B.4. Application of monitoring methodology and plan to the small-scale A/R CDM project activity:

Ex post estimation of the baseline net GHG removals by sinks

In accordance with paragraph 6 of appendix B of AR-AMS0001 (Version 03), no monitoring of the baseline is requested. Baseline net greenhouse gas removals by sinks for the monitoring methodology will be the same as the projection of this element using the AR-AMS0001 (Version 03).

Ex post estimation of the actual net GHG removals by sinks

Before performing the sampling to determine any changes in carbon stocks, project participants need to measure and monitor the area that has been planted. This can be performed through, for example, on-site visits, analysis of cadastral information, aerial photographs or satellite imagery of adequate resolution.

Once project participants have selected the method to monitor the area that has been planted, this method should be used to monitor the performance of the planted areas throughout the project activity. If significant underperformance is detected, changes in carbon stock from such areas shall be assessed as a separate stratum.

Carbon stocks shall be estimated through stratified random sampling procedures and the following equations:

$$P_{(t)} = \sum_{i}^{l} (P_{A(t)i} + P_{B(t)i}) * A_{i}$$
(4)

where:

- $P_{(t)}$ = carbon stocks within the project boundary at time t achieved by the project activity (t C)
- $P_{A(t)i}$ = carbon stocks in above-ground biomass at time *t* of stratum *i* achieved by the project activity during the monitoring interval (t C/ha)
- $P_{B(t)i}$ = carbon stocks in below-ground biomass at time *t* of stratum *i* achieved by the project activity during the monitoring interval (t C/ha)
- A_i = project activity area of stratum *i* (ha)
- i = stratum i (I = total number of strata)

GHG emissions from desiccation of soil shall be estimated through the following equations:

$$P_{E(t)} = \left(EF_{drain_C} * 44/12 + EF_{drain_N} * (44/28) * 310/1000\right) * A_{drain(t)}$$
(5)

where:



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- $P_{E(t)}$ = GHG emissions from desiccation of soil at time t by the project activity (t CO_{2-e}/yr)
- EF_{drain_C} = C emission from desiccation of soil (t-C/ha/yr)
- EF_{drain_N} = N emission as N₂O from desiccation of soil (kg-N₂O-N/ha/yr)
- $A_{drain(t)}$ = Desiccated project activity area at time t under the project scenario (ha)
- 44/12 = Conversion factor from ton C to ton CO_2 equivalent (t $CO_2/t C$)
- 44/28 = Conversion factor from ton N to ton N_2O equivalent (t $N_2O/t N$)
- 310 = GWP for N_2O (t $CO_2/t N_2O$)

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Data to be monitored: Monitoring of the <u>actual net GHG removals by sinks and leakage</u>. **B.4.1**

<u>s data</u>	
<u>sinks</u>	
<u>s by</u>	
<u>Actual net GHG removals by sinks data:</u>	
<u>GHG</u>	
<u>l net (</u>	
<u>Actual</u>	
B.4.1.1 .	

B.4.1.1.1. Data to be col resulting from the prop	B.4.1.1.1. Data to be collected or used in order to monitor the verifiable changes in carbon stock in the <u>carbon pools</u> within the <u>project boundary</u> resulting from the proposed small-scale <u>A/R CDM project activity</u> , and how this data will be archived:	o monito) M <u>proje</u> c	r the verifiable cha t <u>activity</u> , and how	inges in carbo this data wil	n stock in the <u>c</u> I be archived:	<u>:arbon pools</u> within th	he <u>project boundary</u>
Data variable	Source of data	Data unit	Measured (m), calculated (c) or estimated (e)	Recording frequency	Proportion of data to be monitored	How will the data be archived? (electronic/naner)	Comment
Location of the areas where the project activity has been implemented	Field survey or cadastral information or aerial photographs or satellite imagery	Lat- long	(m)	5 years	100%	Electronic, paper, photos	GPS can be used for field survey.
A_i - Size of the areas where the project activity has been implemented for each type of strata	Field survey or cadastral information or aerial photographs or satellite imagery or GPS	ha	(m)	5 years	100%	Electronic, paper, photos	GPS can be used for field survey.
Location of the permanent sample plots	Project maps and project design	Lat- long	defined	5 years	100%	Electronic, paper	Plot location is registered with a GPS and marked on the map.
Diameter at breast height (1.30 m)	Permanent plot	cm	(m)	5 years	Each tree in the sample plot	Electronic, paper	Measure diameter at breast height (DBH) for each tree that falls within the sample plot and applies to size limits
Height	Permanent plot	ш	(m)	5 years	Each tree in the sample plot	Electronic, paper	Measure height (H) for each tree that falls within the sample plot and applies to size limits
<i>A</i> _{drain} - Size of the desiccated project activity area	Field survey or cadastral information or aerial photographs or satellite imagery or GPS	ha	(m)	5 years	100%	Electronic, paper, photos	GPS can be used for field survey.

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Basic wood density	Permanent plots,	tonnes	(e)	once	3 samples per	3 samples per Electronic, paper	
	literature	of dry			tree from base,		
		matter			middle and top		
		per m ³			of the stem of		
		fresh			three		
		volume			individuals		
Total CO ₂	Project activity	Mg	(c)	5 years	All project	Electronic	Based on data collected
		_			data		from all plots and carbon
		_				_	pools

B.4.1.2 Data for treatment of leakage (if applicable)

Not applicable.

B.4.1.2.1. If applicable, please describe the data and information that will be collected in order to monitor leakage of the proposed small-scale <u>A/R</u> **CDM** project activity:

Data variable	Source of	Data unit	Measured (m),	Recording	Proportion	Measured (m), Recording Proportion How will the data Comment	Comment
	data		calculated (c)	frequency	of data to be be archived?	be archived?	
			or estimated (e)		monitored	(electronic/ paper)	
Percentage of families/households of the	Participatory	Number of	(e)	5 years	%	Electronic	
community involved in or affected by the	survey	families or					
project activity displaced due to the		households					
implementation of the project activity							
Percentage of total production of the main	Survey	Quantity	(e)	5 years	%	Electronic	
produce (e.g. meat, corn) within the project		(volume or					
boundary displaced due to the CDM A/R		mass)					
project activity.							

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B.4.2. Qualitative ex	Qualitative explanation of how quality control (QC) and quality assurance (QA) procedures are undertaken:
As explained in the m	As explained in the methodology, the following points shall be taken into consideration for QC and QA procedures.
Quality Control and Quality Assurance As stated in the IPCC GPG for LULUCF (via a QA/QC plan. The plan shall become	Quality Control and Quality Assurance As stated in the IPCC GPG for LULUCF (page 4.111) monitoring requires provisions for quality assurance (QA) and quality control (QC) to be implemented via a QA/QC plan. The plan shall become part of project documentation and cover procedures as described below for:
 a) Collecting relia b) Verifying methoc c) Verifying data (d) Data maintenan are much longe are treated in th 	Collecting reliable field measurements; Verifying methods used to collect field data; Verifying data entry and analysis techniques; and Data maintenance and archiving. Especially this point is important, also for small-scale A/R CDM project activities, as time scales of project activities are much longer than technological improvements of electronic data archiving. Each point of importance for small-scale A/R CDM project activities are treated in the following section.
Procedures to ensure Collecting reliable fie in all aspects of the fi measurements, which for documentation for ensure the collection a	Procedures to ensure reliable field measurements Collecting reliable field measurement data is an important step in the quality assurance plan. Those responsible for the measurement work should be trained in all aspects of the field data collection and data analyses. It is good practice to develop Standard Operating Procedures (SOPs) for each step of the field measurements, which should be adhered to at all times. These SOPs describe in detail all steps to be taken of the field measurements and contain provisions for documentation for verification purposes so that future field personnel can check past results and repeat the measurements in a consistent fashion. To ensure the collection and maintenance of reliable field data, it is good practice to ensure that:
a) Field-team menb) Field teams instc) The document vd) New staff are a	Field-team members are fully aware of all procedures and the importance of collecting data as accurately as possible; Field teams install test plots if needed in the field and measure all pertinent components using the SOPs to estimate measurement errors; The document will list all names of the field team and the project leader will certify that the team is trained; and New staff are adequately trained.

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Procedures to verify field data collection To verify that plots have been installed and th the measurements. The following quality targe	Procedures to verify field data collection To verify that plots have been installed and the measurements taken correctly, it is good practice to re-measure independently every 10 plots and to compare the measurements. The following quality targets should be achieved for the re-measurements, compared to the original measurements:
Missed or extra trees Tree species or groups D.B.H. Height Circular plot radius/sides of rectangular plot	no error within the plot no error $<\pm 0,1$ cm or 1% whichever is greater $<\pm 5\%$ $<\pm 1\%$ of horizontal (angle-adjusted)
At the end of the field work check independe found should be corrected and recorded. Any estimate of the measurement error.	At the end of the field work check independently 10-20% of the plots. Field data collected at this stage will be compared with the original data. Any errors found should be corrected and recorded. Any errors discovered should be expressed as a percentage of all plots that have been rechecked to provide an estimate of the measurement error.
Procedures to verify data entry and analysis Reliable carbon estimates require proper entry of data into both field data and laboratory data are cross-checked and realistic. Communication between all personnel involved in analysis of the monitoring data is completed. If there are ar the analysis.	Procedures to verify data entry and analysis Reliable carbon estimates require proper entry of data into the data analyses spreadsheets. Possible errors in this process can be minimized if the entry of both field data and laboratory data are cross-checked and, where necessary, internal tests incorporated into the spreadsheets to ensure that the data are realistic. Communication between all personnel involved in measuring and analyzing data should be used to resolve any apparent anomalies before the final analysis of the monitoring data is completed. If there are any problems with the monitoring plot data that cannot be resolved, the plot should not be used in the analysis.
Data maintenance and storage Because of the relatively long-term nature of these project Data archiving should take several forms and copies of all of Copies (electronic and/or paper) of all field data, data ana models used; any GIS products; and copies of the measurin Given the time frame over which the project activity will ta data, it is recommended that the electronic copies of the dat software amblication	Data maintenance and storage Because of the relatively long-term nature of these project activities, data archiving (maintenance and storage) will be an important component of the work. Data archiving should take several forms and copies of all data should be provided to each project participant. Copies (electronic and/or paper) of all field data, data analyses, and models; estimates of the changes in carbon stocks and corresponding calculations and models used; any GIS products; and copies of the measuring and monitoring reports should all be stored in a dedicated and safe place, preferably offsite. Given the time frame over which the project activity will take place and the pace of production of updated versions of software and new hardware for storing data, it is recommended that the electronic copies of the data and report be updated periodically or converted to a format that could be accessed by any future software application.

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B.4.3. Please describe briefly the operational and manage <u>GHG removals by sinks</u> by the proposed <u>small-scale A/R</u>	B.4.3. Please describe briefly the operational and management structure(s) that the project operator will implement in order to monitor <u>actual</u> <u>GHG removals by sinks</u> by the proposed <u>small-scale A/R CDM project activity:</u>
The proposed project activity will be implemented by the representative organization Salt Committee from the local NGO, Peace International Association Fiji, Pacific Rim Cultural and Educational Exchange Foundation and academia A special managing unit will be formed to address the issue of management of the project activity to monitor actual C small-scale A/R CDM project activity.	The proposed project activity will be implemented by the representative organization Salt Committee from the local communities in conjunction with local NGO, Peace International Association Fiji, Pacific Rim Cultural and Educational Exchange Foundation and academia. A special managing unit will be formed to address the issue of management of the project activity to monitor actual GHG removals by sinks by the proposed small-scale A/R CDM project activity.
University of the South Pacific (USP) will assist forest man proposed small-scale A/R CDM project activity.	University of the South Pacific (USP) will assist forest management of the reforested mangrove and in monitoring actual GHG removals by sinks by the proposed small-scale A/R CDM project activity.
Japanese experts will consult the local management unit and c	other project participants to assure management and monitoring.
B.4.4. Name of person/entity determining the <u>monitoring 1</u>	<u>methodology:</u>
Name of person(s)/entity(ies) determining the baseline: - Namio TANI Taishi Design Office Co. Ltd	
- Kazuko YAMAGUCHI and Tatsushi HEMMI Pacific Consultants Co., Ltd.	





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SECTION C. Estimation of net anthropogenic GHG removals by sinks:

C.1. Formulae used:

Net anthropogenic GHG removals

= actual net GHG removals by sinks- baseline net GHG removals - leakage

The estimated net anthropogenic GHG removals by sinks in tonnes of CO₂e are summarized in the table below.

Years	Annual net anthropogenic GHG removals by sinks in tonnes of
2007	<u>CO2e</u> 104
2007	291
	592
2009	
2010	1,038
2011	1,648
2012	2,327
2013	3,090
2014	3,887
2015	4,658
2016	5,349
2017	5,915
2018	6,327
2019	6,575
2020	6,660
2021	6,599
2022	6,412
2023	6,128
2024	5,771
2025	5,366
2026	4,936
2027	4,497
2028	4,064
2029	3,647
2030	3,253
2031	2,886
2032	328
2033	22
2033	-254
2035	-501
2036	-721
Total estimated net anthropogenic GHG removals by sinks (tonnes of CO ₂ e)	100,892
Total number of crediting years	30
Annual average over the crediting period of estimated net anthropogenic GHG removals by sinks (tonnes of CO ₂ e)	3,363

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C. 1.1. Description of formulae used for estimation of the <u>actual net GHG removals by</u> <u>sinks due to the project activity within the project boundary</u>:

The formula used to estimate the actual net GHG removals by sinks due to the project activity within the project boundary follow the method described in the methodology. $EF_{drain \ C}$ and $EF_{drain \ N}$ is obtained from table 3.2.3 and table 3a.2.10f the IPCC GPG for LULUCF.

C. 1.2. Description of formulae used to estimate <u>leakage due to the project activity</u>, where required, for the applicable <u>project category</u> in <u>appendix B</u> of the simplified modalities and procedures for <u>small-scale A/R CDM project</u> activities under CDM:

As the methodology does not consider leakage, therefore, no leakage calculation is done for the project activity.

C. 1.3. Description of formulae used to estimate <u>net anthropogenic GHG removals by</u> <u>sinks</u>, for the applicable <u>project category</u> in <u>appendix B</u> of the simplified modalities and procedures for <u>small-scale A/R CDM project</u> activities under CDM:

The resulting l-CERs at the year of verification *tv* are calculated as follows:

$$lCER_{(tv)} = 44/12 * \left[\left(N_{(tv)} - N_{(tv-\kappa)} \right) - L_{(tv)} \right] - \sum_{tv-\kappa}^{tv} \left(N_{E(tv)} \right)$$
(6)

$$L_{(\nu)} = 0.15 * \left(N_{(\nu)} - N_{(\nu-\kappa)} \right)$$
(7)

 $N_{(tv-\kappa)} = N_{(t=0)}$ for the first verification

where:

$lCER_{(tv)}$	=	ICERs emitted at year of verification tv (t CO ₂)
N _(tv)	=	carbon stocks in the living biomass pools within the project boundary at year of
		verification tv under project scenario (t C)
$L_{(tv)}$	=	leakage attributable to the project activity within the project boundary at year of
		verification tv (t C)
$N_{E(tv)}$	=	GHG emission from desiccation of soil within the project boundary at year of verification
		tv under project scenario (t CO _{2-e})
tv	=	year of verification
κ	=	time span between two verifications
44/12	=	conversion factor from t C to t CO_2 equivalent (t CO_2/t C)

C. 2. Estimate of the actual net GHG removals by sinks:

Estimated sum of e actual net GHG removals by sinks is 100,892 t CO_2 over 30 years which result in annual removal of 3,363 t CO_2 /year.



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C. 3. Estimated baseline net GHG removals by sinks:

As mentioned above, this equals to zero.

C. 4. Estimated <u>leakage</u>:

Estimated sum of leakage over 30 year period is 0 t CO₂.

C. 5.. The sum of C. 2. minus C.3 minus C.4 representing the <u>net anthropogenic GHG removals</u> by sinks of the proposed <u>small-scale A/R CDM project activity</u>:

The sum of C. 2 minus C.3 minus C.4 representing the net anthropogenic GHG removals by sinks of the proposed small-scale A/R CDM project activity is $100,892 \text{ t } \text{CO}_2$ over 30 years.



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C. 6. Table providing values obtained when applying formulae above:

The table summarizing the results of the calculation is shown below.

Years	Estimation of baseline net GHG removals by	Estimation of actual net GHG removals by sinks in	Estimation of leakage in	Estimation of net anthropogenic GHG removals by sinks in
	sinks in tonnes of CO ₂ e	tonnes of CO ₂ e	tonnes of CO ₂ e	tonnes of CO ₂ e
2007	0	104	0	104
2008	0	291	0	291
2009	0	592	0	592
2010	0	1,038	0	1,038
2011	0	1,648	0	1,648
2012	0	2,327	0	2,327
2013	0	3,090	0	3,090
2014	0	3,887	0	3,887
2015	0	4,658	0	4,658
2016	0	5,349	0	5,349
2017	0	5,915	0	5,915
2018	0	6,327	0	6,327
2019	0	6,575	0	6,575
2020	0	6,660	0	6,660
2021	0	6,599	0	6,599
2022	0	6,412	0	6,412
2023	0	6,128	0	6,128
2024	0	5,771	0	5,771
2025	0	5,366	0	5,366
2026	0	4,936	0	4,936
2027	0	4,497	0	4,497
2028	0	4,064	0	4,064
2029	0	3,647	0	3,647
2030	0	3,253	0	3,253
2031	0	2,886	0	2,886
2032	0	328	0	328
2033	0	22	0	22
2034	0	-254	0	-254
2035	0	-501	0	-501
2036	0	-721	0	-721
Total (tonnes of CO ₂ e)	0	100,892	0	100,892

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SECTION D. Environmental impacts of the proposed small-scale A/R CDM project activity:

D. 1. If any negative impact is considered significant by the <u>project participants</u> or the <u>host Party</u>, a statement that <u>project participants</u> have undertaken an environmental impact assessment, in accordance with the procedures required by the <u>host Party</u>, including conclusions and all references to support documentation:

As mentioned in Section A.2, the project activity would not result in significant negative impact but result in the following positive impacts:

- 1) Improving fish catches (fish, prawn, crabs etc) with habitat formation through mangrove forests,
- 2) Adaptation to global warming (dissolve the vulnerability caused by coastal erosion due to sea level rise),
- 3) Breakwater against Tsunamis (demonstrated by Sumatra earthquake), and
- 4) Protection and improvement of biodiversity

SECTION E. Socio-economic impacts of the proposed small-scale A/R CDM project activity:

E. 2. If any negative impact is considered significant by the <u>project participants</u> or the <u>host Party</u>, a statement that <u>project participants</u> have undertaken a socioeconomic impact assessment, in accordance with the procedures required by the <u>host Party</u>, including conclusions and all references to support documentation:

From the socio-economic impact study conducted by the project participants, no negative impacts were found. The local community people are well aware of the climate change and recognize that they face sea level rise in everyday life. About 96% of the people have positive view on reforestation through the survey for 46 people. The reasons for this were mostly attributed to the image of reforestation conserving marine resources such as fish, crab and shrimps and expectation for new employment opportunities. The reasons for the motivation to participate in reforestation activity were the same.

SECTION F. <u>Stakeholders'</u> comments:

F. 1. Brief description of how comments by local stakeholders have been invited and compiled:

This section will be filled before validation.

F. 2. Summary of the comments received:

This section will be filled before validation.

F. 3. Report on how due account was taken of any comments received:

This section will be filled before validation.



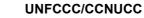
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Annex 1

CONTACT INFORMATION ON PARTICIPANTS IN THE PROPOSED <u>SMALL-SCALE A/R CDM</u> <u>PROJECT ACTIVITY</u>

Organization:	Salt Committee
Street/P.O.Box:	
Building:	
City:	Lomawai village, Tikina Wai district
State/Region:	Viti Levu, Nadroga province
Postfix/ZIP:	
Country:	Republic of the Fiji Islands
Telephone:	
FAX:	
E-Mail:	
URL:	
Represented by:	Adi Vale Bakewa
Title:	
Salutation:	
Last Name:	
Middle Name:	
First Name:	
Department:	
Mobile:	
Direct FAX:	
Direct tel:	
Personal E-Mail:	

Organization:	Taishi Design Office Co. Ltd
Street/P.O.Box:	#566,1-7 Akasaka 9-chome
Building:	
City:	Minato-ku
State/Region:	Tokyo
Postfix/ZIP:	107-0052
Country:	Japan
Telephone:	+81-3-3401-0977
FAX:	+81-3-3401-0929
E-Mail:	tani@cdmi.jp
URL:	
Represented by:	Namio Tani
Title:	Director
Salutation:	
Last Name:	





PROJECT DESIGN DOCUMENT FORM

FOR SMALL-SCALE AFFORESTATION AND REFORESTATION PROJECT ACTIVITIES (CDM- SSC-AR-PDD) - Version 01

Middle Name:	
First Name:	
Department:	
Mobile:	
Direct FAX:	
Direct tel:	
Personal E-Mail:	





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Annex 2

INFORMATION REGARDING PUBLIC FUNDING

The project activity does not involve public funding.

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