



## Plan Vivo interim certificate issuance request form 2012-13

Khasi Hills Community REDD+ Project

Community Forestry International

October 14, 2013

### 1. Submission for Plan Vivo Certificate Issuance

Plan Vivo Certificates will be issued for carbon services that relate to:

- **Plan vivos** that have been evaluated and approved by the project coordinator in line with approved technical specifications
- The project coordinator has entered into a '**PES agreement**' (sale agreement) with the smallholders or groups managing the plan vivos
- Activities have been implemented and gone through an **initial monitoring** process, and participants have met their first performance target

>>Please provide the information necessary to trigger Certificate Issuance (tables 1 and 2). Information is split into 2 tables to show where Plan Vivo Certificates to be issued have already been forward purchased, and where the project coordinator intends to hold the credits as 'unsold stock'. If the project wishes to generate Plan Vivo Certificates as 'unsold stock', the project should contact the Plan Vivo Foundation in advance if the volume exceeds 20,000 tCO<sub>2</sub>, to agree to the volume that can be issued.

**Table 1: Project CO<sub>2</sub> sales and allocations**

Total volume of CO <sub>2</sub> sold (tCO <sub>2</sub> )	Total Sale Price (\$) <sup>1</sup>	Total number of producers/ producer groups allocated to buyers	Total area (ha)	Technical specification applied	Price to producer/ group (\$/tCO <sub>2</sub> ) <sup>2</sup>	% of Sale Price that will reach communities as PES
5,695 t CO <sub>2</sub> proposed for sale	\$34,668	62 villages	9,270 ha Dense Forest 5,947 ha. Open Forest	REDD+ Benefit – 19.767 tCO <sub>2</sub> ANR Benefit – 2038 tCO <sub>2</sub>	\$6 to \$7	100 % minus issuance fees and wire transfer costs

**Table 2: Submitting for ‘unsold stock’ of Plan Vivo Certificates**

Total volume of unsold stock (tCO <sub>2</sub> )	Total number of producers/ producer groups allocated ‘unsold stock’	Total area (ha)	Technical specification applied	Price to producer/group (\$/tCO <sub>2</sub> )
e.g. 16,805 tCO <sub>2</sub>	62 villages	9,270 ha Dense Forest 5,947 ha. Open Forest	REDD+ Benefit – 15,225 tCO <sub>2</sub> ANR Benefit – 1,580 tCO <sub>2</sub>	\$4 to \$ 6 /tCO <sub>2</sub>

**Table 3: Inventory of stock**

Total volume of carbon offsets generated in 2012	Total volume of Plan Vivo certificates issued by October 2013	Total volume sold to date	Total volume of unsold stock (tCO <sub>2</sub> )	Total area (ha)	Technical specification applied	Price to producer/group (USD\$/tCO <sub>2</sub> )
21,805 tCO <sub>2</sub>	5000 t CO <sub>2</sub>	5,695 tCO <sub>2</sub>	16,110	9270 ha Dense Forest 5947 ha. Open Forest	REDD+ Benefit – 19.767 tCO <sub>2</sub> ANR Benefit – 2038 tCO <sub>2</sub>	\$ 6 to \$ 7 / tCO <sub>2</sub>

<sup>1</sup> Pricing information will be removed before the report is made publicly available

<sup>2</sup> This information is used to assess whether the project benefit sharing structure is as laid out in the PDD. Please add an additional column to this table if there are additional payments to the community e.g. community trust fund.

## 2. Sales of Plan Vivo Certificates

>>Please list all sales of Plan Vivo Certificates that you are applying for in this interim report. The table must include the name of the purchaser, number of Certificates purchased, price paid per Certificate and total value of sale.

E.g:

Table 4: Sales of Plan Vivo certificates

Vintage	Name of purchaser/source of funds	Number of Plan Vivo Certificates purchased	Price per Certificate*	Total amount received (\$)
2012	ZeroMission	2,463	████	████████
2012	CLevel	200	████	████████
2012	BioClimate	1,306	████	████████
2012	Ceramica Sant'Agostino	1,225	████	████████
2012	ZeroMission	501	████	████████
TOTAL		5,695	████	████████

**Important:** Please ensure that the name of the organisation or individual to whom the Plan Vivo Certificates are to be issued is accurate as it will be recorded in the Markit Environment Registry.

\* Individual pricing information supplied to the Foundation will be for internal purposes only. Pricing information will be removed before the report is made publicly available.

### 3. Monitoring Results

>>Provide **monitoring results for new *plan vivos*** (for which Certificates are to be issued) in Appendix 1.

The monitoring results should be presented in a way that shows what the monitoring target (or 'performance milestone') is for the *plan vivo* being monitored, so it is possible to assess if monitoring targets have been met.

>>Where *plan vivos* have been **monitored unsuccessfully**, provide a summary of reasons, corrective actions imposed and any other action taken (e.g. where payments have been withheld).

### Appendices: Monitoring results for new plan vivos

#### Appendix 1: Carbon Stock assessment

The present analysis was based on enumeration of permanent plots in dense and open forest using methods according to Chave *et al.* (2005) and Shrestha *et al.* (2010) respectively. The analysis was based on 20 plots in dense and 20 plots in open forest. A substantial increase in carbon stock in dense forest was observed (79.15 tC/ha to 112.9tC/ha) which may be attributed to the increase in the volume of individual trees (see Appendix 4). This level of sequestration exceeds the projections made in the technical specifications. There was a slight increase of 2.8% in the carbon stock in open forest plots. With carbon certification revenues, the ANR program in open forests will be initiated in 2013 and should accelerate the rate of regeneration and carbon sequestration in the coming year.

The detail plot-wise carbon stock and the average for the two categories are mentioned below.

**Table 1: Comparison of Baseline to Current Carbon Stock**

Land use	Initial tC/ha (2011)	Present tC/ha (2012)	Initial tCO <sub>2</sub> /ha (2011)	Present tCO <sub>2</sub> /ha (2012)
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Dense forest	79.15	112.9	290	413
Open forest	3.345	3.439	12.2	12.6

Total CO2 additionality over the period based on the plot inventory data would be 24,100 tCO2 in the dense forests and 2,141 tCO2 in the open forests with a net increase of approximately 26,241 tCO2 during the first 18 months of the project if plot inventory data accurately reflects forest cover change across the project area. While the plot inventory sample size is small and the monitoring system is still being developed, the project managers feel carbon storage and sequestration goals are being achieved and requests Plan Vivo certification for 21,805 tCO2 specified in the technical specifications.

## APPENDIX 2: FOREST PLOT INVENTORY FINDINGS MAY 2011 AND DECEMBER 2012

Open forest	tC/ha	tC/ha	Dense forest	tC/ha	tC/ha
Plot No.	2011	2012	Plot No.	2011	2012
3	3.085	3.158	1	99	112
6	2.826	3.828	2	30	77
7	3.008	3.008	4	14	128
8	2.827	2.827	5	57	178
12	3.53	3.556	9	142	153
13	2.977	2.985	10	34	48
15	3.553	3.585	11	39	60
16	6.02	6.068	14	119	142
17	4.994	5.075	21	5	92
18	3.06	3.119	22	104	120
19	3.03	3.237	24	92	110
20	2.855	2.866	25	18	24
23	2.892	2.896	28	87	98
26	3.45	3.45	29	58	63
27	3.197	3.348	30	158	203
31	3.021	3.029	33	73	93

32	3.022	3.046	34	86	101
36	3.116	3.221	35	65	75
39	3.584	3.584	37	232	267
40	2.852	2.9	38	71	114
<b>Total</b>	<b>66.899</b>	<b>68.786</b>	<b>Total</b>	<b>1584</b>	<b>2258</b>
<b>Average</b>	<b>3.345</b>	<b>3.439</b>	<b>Average</b>	<b>79</b>	<b>113</b>
<b>SD</b>	<b>0.8</b>	<b>0.8</b>	<b>SD</b>	<b>54.9</b>	<b>56.3</b>

\*Open forest following the formula developed by Shrestha R.(2010) Biomass= $[0.011*(BA)^2+2.812]*1000*2$  Where BA=basal area

+ Dense Forest following the formula developed by Chave *et. al.*(2005)Biomass=  $\rho*\exp[-1.499*2.148*\ln(DBH)+0.207*\ln(DBH)^2-0.281*\ln(DBH)^3]$  Where  $\rho$ =specific gravity of the wood and DBH=Diameter at Breast Height (1.37m)