

TITLE OF THE MICRO-PROGRAMME: Fundacion Natura Colombia Cookstove PoA

**ANNEX AO – THE GOLD STANDARD MICRO-PROGRAMME ACTIVITY DESIGN
DOCUMENT TEMPLATE (VPA-DD)**

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SECTION A. General description of micro-programme activity (VPA)

A.1. Title of the micro-scale VPA:

>> VPA Santander - Robles

A.2. Description of the micro-scale VPA:

The VPA Santander-Robles, herein after referred to as the project, is the first activity of the Fundacion Natura Colombia Cookstove PoA.

The Coordinating Managing Entity of the PoA is Fundacion Natura. In this particular case the Distribution Organization (hereinafter DO) in this VPA is as well Fundacion Natura¹.

The project activity considers the replacement of approximately 4,900 traditional inefficient stoves with efficient devices in the municipalities of Charalá, Coromoro, Encino, Gambita and Mogotes, all of them in the Department of Santander, Colombia. The project activity will generate an average emission reduction of 8,624 tCO₂e per annum. The VPA will be implemented as a component of a Gold Standard Micro Program of Activities.

This VPA is focused on the distribution of necessary materials and knowledge, construction and monitoring of the operation of improved cook stoves (hereinafter ICSs) for the lowest-income households of rural areas in the region of Robles, Department of Santander, Colombia. The enumerated activities have as an ultimate goal lowering the consumption of firewood, abate greenhouse gas emissions and indoor air pollution as well as reduce the pressure on non-renewable biomass resources within the project boundary, located in rural areas of the region.

The identification of the lowest-income households will be done by the CME in collaboration with the municipalities. Each municipality included in this VPA will select a number of local master builders to be capacitated by the CME in the construction of stoves. These persons will be trained for building all stoves according to the specifications that ensure higher efficiency of the new devices. The DO will be responsible for checking that the construction of ICSs is in fact following the technical requirements established by the CME.

The project activity does not seek the generation of profit. The establishment of the ICSs will be financed together by the municipalities, the final users and the CME. The cost of the stove is around 770,000 Colombian pesos, which represent 408 USD². From this cost approximately 13% represents the cost of the master builder that is covered by the municipality. The municipality will also cover the cost of transportation of materials from the urban nucleus to the households. The remnant financial cost is assumed by the Fundacion Natura, acting as both CME and DO in this VPA. In other VPAs the CME will finance to different percent, since the respective DO will provide as well financing. As this VPA is included in the first phase of the PoA, which prioritizes the lowest-income households, the final user will not be asked for contributing with any financial asset, but rather to supply 500 kg of sand, one

¹ <http://www.natura.org.co/>

² Conversion of currency according to google finance. Consulted on August 13th, 2014

https://www.google.com/webhp?sourceid=chrome-instant&rlz=1C1LENP_enCH472CH472&ion=1&espv=2&ie=UTF-8#q=1%20COP%20to%20USD

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man-day of work as assistant of the master builder and accommodation/food for the master builder or the technicians from the CME or DO in case it is needed.

The financing provided by Fundación Natura is entirely based on donations coming from diverse sources like private entities and charity. Thus, the implementation of this VPA would not be possible in absence of carbon financing.

The improved cooking stove of Fundación Natura

The improved cooking stove (hereinafter ICS) of the Fundación Natura is designed for providing the space and heat necessary for cooking meals and meet the domestic needs for an average family in the region, consisting of a household of four persons³. The project technology is a spin off ICA-1791 wood-burning stove, which was developed by Colombian Agricultural and Livestock Institute (ICA its acronym in Spanish) in the beginning of eighties, and afterwards, it was disseminated along mostly of the country. The need for lessening pressure over last remaining Andean oak forest located at northeastern Colombian highlands drove Fundación Natura to bring about framework for encouraging conservation of this forest species which one was banned for long time. Andean oak's wood is very appreciated as fuelwood by rural communities in such region of country, due to its "apparent" availability besides of its "good ember" because of high density of wood, so fuelwood consumption became a stressing activity for these forests. In the purpose of resolving this concern was necessary address it from demand-side by means of strategies would be able to reduce fuelwood consumption, therefore a diagnostic survey about cooking devices used by rural homes was carried out. This survey showed at least one-quarter of interviewee homes owned a well-built traditional wood-burning stove unlike three stone fire. Even though each home held a wood-burning stove that keeps similarities in regard to the others, they aren't due to a standardized building process.

As time goes by, it was found out those wood-burning stoves were altered versions spin off ICA – 1791. By keep in mind such cookstove was highly regarded by rural communities, decision about revisiting its original design was made and therefore, a combustion chamber modification was suggested. Thereby, there were no intentions for bringing about drastic changes on users behavior those who were widely familiarized with outward appearance of cookstove. In this sense, it was merely modified combustion chamber's geometry by adopting "rocket – style" for achieving a cleaner combustion and improving thermal efficiency so that lowering fuelwood consumption and mitigating impacts on Andean oak forest as source.

FN cookstove is a massive, in situ cooking device made of bricks, refractory bricks (used in combustion chamber only), mortar and metallic pieces which measurements are: width 90 cm, height 85 cm and depth 70 cm. This model is based on cookstove ICA-1791 but it differs in combustion chamber. FN cookstove has a "L" laid-shaped rocket combustion chamber where adjacent axis has 56 cm and riser has 37 cm. Combustion chamber is made of refractory bricks for preventing heat losses by thermal conduction to stove body. Hollows around combustion chamber are filled by ash in order to boost thermal isolation. Its chimney is built with three single earthenware pipes and placed outdoor kitchen just behind cookstove's site which it's linked by hole through the wall. It's a four-pot places cookstove, and besides it has a metallic oven that it gets heat from smoke and hot gases flowing along smoke

³ <https://www.dane.gov.co/files/censos/libroCenso2005nacional.pdf>

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exhaust path. The water boiling tests (hereinafter WBT) developed for the Fundacion Natura ICS showed that the stove achieves an average thermal efficiency of 15.4%⁴. The kitchen performance test (hereinafter KPT) showed that the use of the Fundacion Natura ICS represents an average daily savings of 0.73 Kg/person/day, which represents savings of 1.03 tonnes of firewood per year.

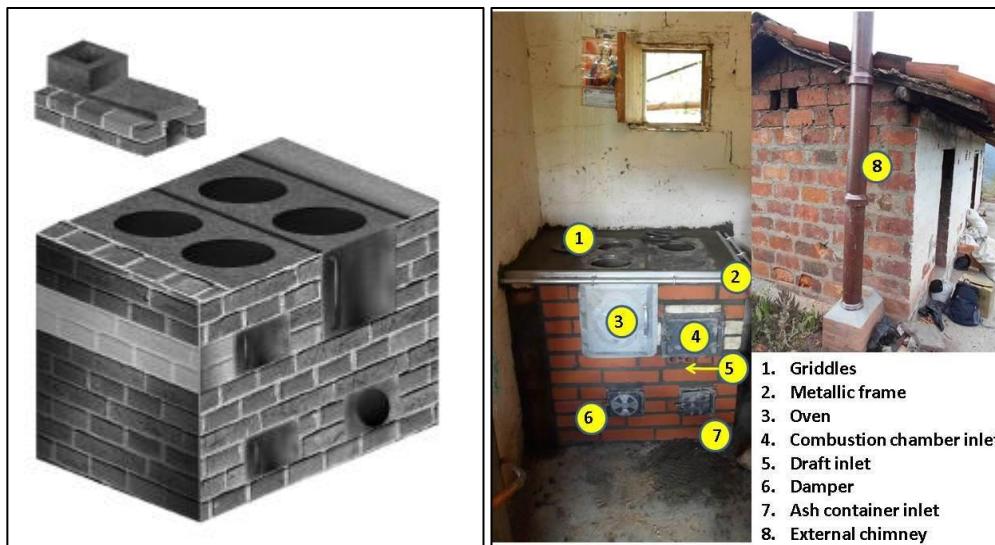


Figure 1. a) ICS design; b) ICS installed in a household.

Fundacion Natura developed a trial project that included the construction of 30 stoves in the municipalities of La Purnia and San Isidro, Department of Santander. However, the project will introduce ICS in the Department of Santander for the first time. The municipalities included in this VPA are Charalá, Coromoro, Encino, Gambita and Mogotes. No other projects based on ICS have been implemented to date in the municipalities where this VPA will be developed.

A.3. Entity/individual responsible for the micro-scale VPA:

This VPA is coordinated by the Coordination Managing Entity (CME) of the PoA, the Fundacion Natura. Fundacion Natura was created in 1984 with the misión of contributing to the conservation of the biologic diversity of Colombia and seeks alternatives for the sustainable use of natural resources.

Name of VPA Operator: Fundacion Natura

Primary Contact: Roberto León Gómez

Email Address: rlgomez@natura.org.co

Physical Address: Carrera 21 No. 39-43, Bogotá D.C. (Colombia)

Phone number: (+57) 311 8104010

⁴ Thermal efficiency was characterised following the Water Boiling Test

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A.4. Technical description of the micro-scale VPA:

This VPA will make use of the first technology and the first project scenario described in the PoA DD

A.4.1. Identification of the micro--scale VPA:

VPA 01 Santander - Robles

A.4.1.1. Host Party:

Colombia

A.4.1.2. Geographic reference or other means of identification allowing the unique identification of the micro--scale VPA (maximum one page):

This VPA will be implemented in the region of Robles in the Department of Santander, Colombia. The location of the VPA is presented in **|Error! No se encuentra el origen de la referencia.** below. The municipalities included in this VPA include Charalá, Coromoro, Encino, Gambita and Mogotes.

The region of the VPA Santander - Robles is defined in the geographical coordinates 6°48'42.99"N, 72°57'56.29"W and 5°56'29.50"N, 73°20'40.42"W.

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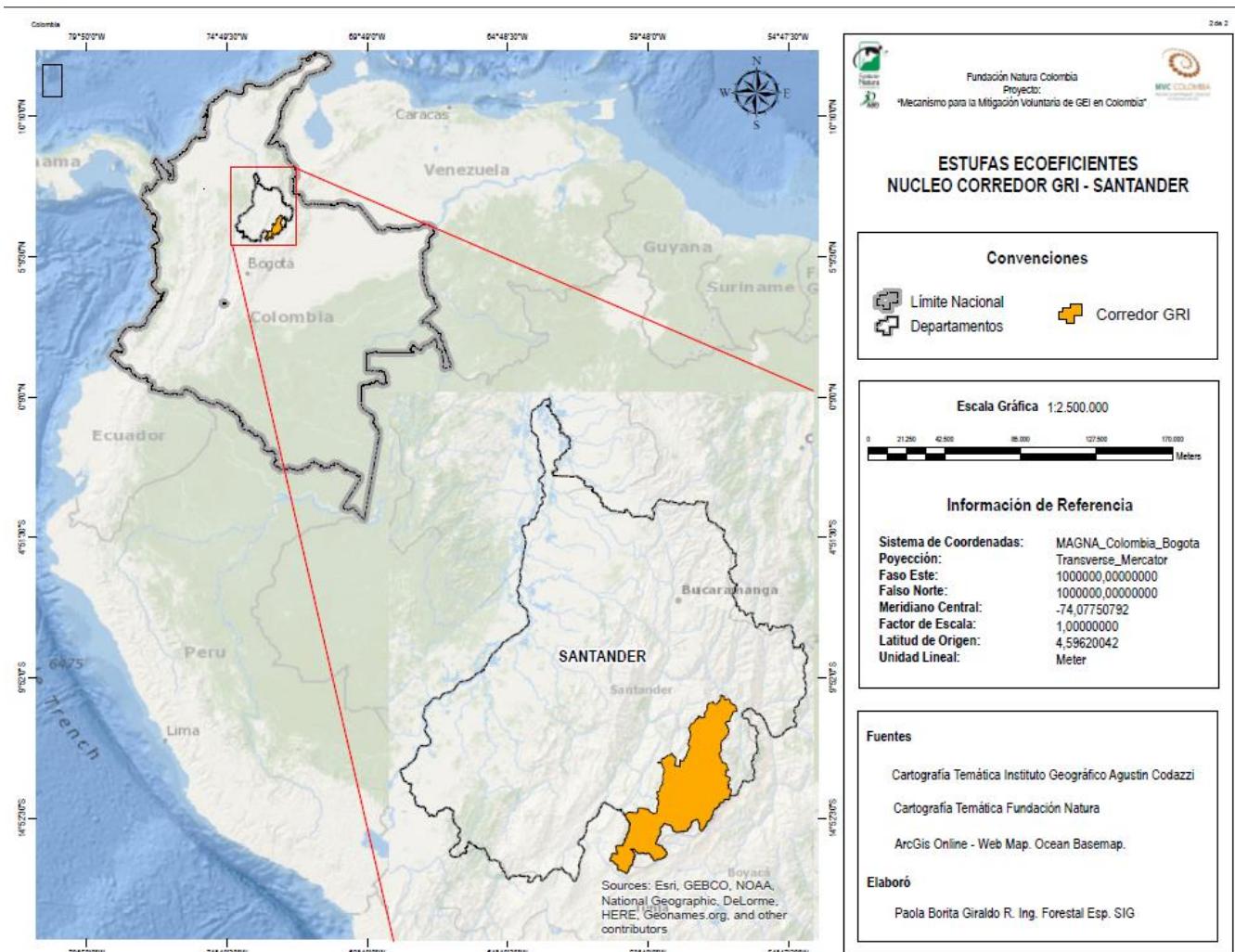


Figure 2. Location of the VPA area

A.4.2. Duration of the micro--scale VPA:

A.4.2.1. Starting date of the micro--scale VPA:

October 06th, 2014

A.4.2.2. Expected operational lifetime of the micro--scale VPA:

21 years

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A.4.3. Choice of the crediting period and related information:

Renewable crediting period;

A.4.3.1. Starting date of the crediting period:

>> July 7th, 2014

A.4.3.2. Length of the crediting period, first crediting period if the choice is renewable

CP:

7 years

A.4.4. Estimated amount of emission reductions over the chosen crediting period:

Since the use of the cookstove is one month after its installation, we consider only the emission reduction achieved in 2014 from November 6th onwards.

Year	Emission reductions tCO2e
2014	376
2015	6,153
2016	7,691
2017	9,230
2018	10,768
2019	12,306
2020	13,844
Average	8,624

A.4.5. Public funding of the VPA:

The implementation of the VPA Santander - Robles does not imply any diversion of public funding that was previously considered for the construction of efficient cooking devices in the area or any other state-or multilateral-driven program with focus on sustainable development. To attest to this fact the VPA operator has signed an ODA declaration as proof that can be found in Annex 2.

A.4.6. Confirmation that micro--scale VPA is neither registered as an individual GS project activity or with any other standard or is part of another Registered PoA:

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>> VPA Santander – Robles confirms that this VPA is neither registered as an individual gold standard project or with any standard or is part of another Registered PoA.

SECTION B. Eligibility of micro-scale VPA and Estimation of emissions reductions

B.1. Title and reference of the Registered PoA to which micro-scale VPA is added; title of baseline and monitoring methodology applicable to the VPA:

>> The micro scale VPA Santander - Robles is added as the first VPA to the proposed PoA, “Fundacion Natura Colombia Cookstove PoA” shall employ the Gold Standard methodology titled Technologies and Practices to Displace Decentralized Thermal Energy Consumption - 11/04/2011.2

B.2. Justification of why the micro-scale VPA is eligible to be included in the Registered PoA:

>> PoA Eligibility criteria

Eligibility criteria		VPA compliance
Criteria description	Action items for compliance	
<u>Geographical boundary:</u> Geographical boundary of the VPA consistent with the geographical boundary set in the PoA DD;	For a VPA to be included in the proposed PoA, the VPA implementer will have to develop the project activity within the geographical boundary considered in the PoA DD. This must be demonstrated through relevant documentation in each VPA DD.	The geographical boundary of the VPA Identified as Santander - Robles is in the country of Colombia. This is the host party expressly provided for in section A.4.1.1 of the PoA DD as part of the PoA project boundary. As presented in Section A.4.1.2, this VPA presents boundaries within the areas defined by the Fundacion Natura Colombia Cookstove PoA.
<u>Double counting:</u> Conditions that avoid double counting of emission reductions like unique identifications of product and end-users;	Each cooking stove installed under the proposed PoA will be uniquely identified to avoid double counting.	Each cookstove installed in the VPA Santander – Robles will have a tag that identifies the device assigning to it a unique number which can be tracked against other data such as the end user name and location.
<u>Specifications of technology:</u> The specifications of	The VPA operator will provide a description of the project technology within the VPA DD.	A technical description of the cookstove has been provided in section A.2 of this VPA DD. The

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Eligibility criteria		VPA compliance
Criteria description	Action items for compliance	
technology/measure, including the level and type of service, performance specifications including compliance with testing/certifications;	The results of the tests developed for the characterization of the stoves' thermal efficiency will be provided to the auditor at the time of validation.	results of the technical tests undertaken to determine the thermal efficiency will be provided to the auditor at the time of validation.
<u>Start date of the VPA:</u> Conditions to check the start date of the VPA through documentary evidence	The VPA start date cannot be found before the date of validation start date of the PoA. The VPA operator will provide documentary evidence by way of distribution records that prove that the VPA start date is in compliance with the Gold Standard requirements.	The VPA total distribution record will be used as documentary evidence to prove that none of the cookstoves included in the VPA Santander - Robles were distributed before the start date of the VPA.
<u>Compliance with methodology:</u> Conditions that ensure compliance with applicability and other requirements of single or multiple methodologies applied by VPAs	The VPA DD will demonstrate compliance with the following provisions of the GS methodology TPDDTEC	
	<i>This methodology is applicable to programs or activities introducing technologies and/or practices that reduce or displace greenhouse gas (GHG) emissions from the thermal energy consumption of households and non-domestic premises.</i>	VPA Santander – Robles introduces efficient cookstoves that will displace part of the fuel wood traditionally used to generate heat for cooking purposes.
	<i>The project boundary can be clearly identified, and the technologies counted in the project are not included in another voluntary market or CDM project activity (i.e. no double counting takes place). Project proponents must have a survey mechanism in place</i>	The project boundary of VPA Santander – Robles is defined as the domestic households in which the cookstove is installed. Each cookstove will have a unique identification number. The records of installation and monitoring will be generated by

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Eligibility criteria		VPA compliance
Criteria description	Action items for compliance	
	<i>together with appropriate mitigation measures so as to prevent double-counting in case of another similar activity with some of the target area in common.</i>	the VPA operator and kept by the CME, being in this case the same entity. Only project technologies with clearly labelled unique serial numbers will be included in the project activity.
	<i>Only end users that currently use non-efficient cooking stoves are eligible for crediting</i>	Baseline surveys for VPA Santander – Robles revealed that 100% of household identified for the first implementation phase of the PoA currently use non-efficient cookstoves.
	<i>The project proponent must clearly communicate to all project participants that it is claiming ownership rights of and selling the emission reductions resulting from the project activity</i>	The argumentation around the ownership of the credits has been thoroughly detailed during the process of stakeholder consultation both at PoA and VPA level. The final user of the stove will sign a contract upon the installation of the stove clearly stating that all credits generated by the VPA will be property of the VPA operator but administered by the CME.
	<i>The technologies each have continuous useful energy outputs of less than 150kW per unit (defined as total energy delivered usefully from start to end of operation of a unit divided by time of operation). For technologies or practices that do not deliver thermal energy in the project scenario but only displace thermal energy supplied in the baseline scenario,</i>	The project activity seeks to lower the use of non-renewable woody biomass used in the baseline scenario to provide thermal energy for cooking. As each cookstove is distributed on a household basis, equations to determine the amount of energy displaced in the baseline have to be back calculated depending on the amount of thermal energy required by each

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Eligibility criteria		VPA compliance
Criteria description	Action items for compliance	
	<i>the 150kW threshold applies to the displaced baseline technology.</i>	household to fulfil the energy requirements for daily cooking needs. This result will be then multiplied by the number of cookstoves the project activity will install on the field. The kilowatt output per unit is 2.72 kW.
	<i>The use of the baseline technology as a backup or auxiliary technology in parallel with the improved technology introduced by the project activity is permitted as long as a mechanism is put into place to encourage the removal of the old technology (e.g discounted price for the improved technology) and the definitive discontinuity of its use. The project documentation must provide a clear description of the approach chosen and the monitoring plan must allow for a good understanding of the extent to which the baseline technology is still in use after the introduction of the improved technology, whether the existing baseline technology is not surrendered at the time of the introduction of the improved technology, or whether a new baseline technology is acquired and put to use by targeted end users during the project crediting period – see section III. The success of the mechanism put into place must therefore be monitored, and the approach</i>	The baseline technology identified is the use of wood stoves to generate heat for cooking activities performed in non-efficient cooking devices. The use of this traditional thermal energy source is not only restricted to cooking but is also used for other functions like boiling water for diverse purposes. The project will disable the older non-efficient cooking devices as a precondition for installing the efficient cookstoves. However, and because returning to the baseline scenario is extremely easy for the final user (three stone fires), the project will conduct several workshops focusing on enhancing the awareness of the final users towards the environmental implications of using non-efficient cooking devices, and the implications of their participation on the program and the generation of emission reductions of greenhouse gases.

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Eligibility criteria		VPA compliance
Criteria description	Action items for compliance	
	<i>must be adjusted if proven unsuccessful. If an old technology remains in use in parallel with the improved technology, corresponding emissions must of course be accounted for as part of the project emissions.</i>	
Local stakeholder consultations The PoA-specific requirements stipulated by the CME including any conditions related to undertaking local stakeholder consultations	The CME has expressed in the PoA DD that the Local Stakeholder Consultations must be conducted at the VPA level.	A local stakeholder consultation has been conducted and reported in Section C of this VPA DD
<u>Official development assistance:</u> Conditions to provide an affirmation that funding from Annex I parties, if any, does not result in a diversion of official development assistance;	In addition to the requirement within the VPA DD to provide a statement with regards to any ODA diversions, the VPA Operator (applicable only to VPA Operators other than the CME) will provide in writing an attestation that there is no Funding from Annex 1 parties or that any funding for the SSC VPA from Annex 1 parties does not result in a diversion of official development assistance. The CME will provide a written statement of attestation that the project activity does not receive any ODA from an Annex 1 country. The VPA Operator shall be required to state in writing the distribution plan that will be employed in the distribution of project technologies within the SSC VPA. Such description will also require a description of the	VPA SANTANDER – ROBLES will not receive any public funding for the project activity and the VPA operator has signed an ODA declaration as confirmation.

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Eligibility criteria		VPA compliance
Criteria description	Action items for compliance	
	target group intended for distribution of the project technology by way of a baseline survey of the target group population characteristics or relevant national statistics or peer reviewed literature.	
<u>Small-scale or micro scale threshold criteria:</u> Where applicable, the conditions that ensure that every VPA in aggregate meets the small-scale or micro scale threshold criteria and remains within those thresholds throughout the crediting period of the VPA;	VPA Operators will be required to prove that the number of project cookstoves installed in the VPA will not realize emissions reduction in excess of the 10,000 tCO ₂ /annum, as per the threshold for Gold standard micro scale project activities. As per Gold Standard v. 2.2 Annex U, Section 5, no debundling rules apply.	VPA SANTANDER – ROBLES will generate emissions reductions accounting for an average of 8,624 tCO ₂ e per annum.
<u>Additionality:</u> The conditions that ensure that VPAs meet the requirements pertaining to the demonstration of additionality as specified in the PoA DD.	The VPA DD must adequately describe its conformity to the additionality argument presented in the PoA DD.	The additionality at VPA level is demonstrated following the guidance of Gold Standard v.2.2 Annex U on its Section 6 sub-section iii), that the project is additional if it can be demonstrated that its implementation will essentially benefit poor communities. Since the PoA is structured in phases and during the first phase the lowest-income rural households will be prioritized this argument applies and therefore additionality is demonstrated. A second argument for demonstrating additionality can be presented and refers to the guidance provided by the Gold Standard v.2.2 Annex U section 6 sub-section vi), in which it is

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Eligibility criteria		VPA compliance
Criteria description	Action items for compliance	
		states that a project is additional if each sub-system considered in the project activity generates annual emission reductions of less than 600 tCO2e/year, generates energy savings of less than 600MWh/year or the installed capacity is less than 1,500 kW in households.

Table 1: PoA eligibility criteria

Indicator	Relevance for achieving Millennium Development Goals (MDG)	Chosen parameter and explanation
Biodiversity	MDG 7	Fundacion Natura will monitor the state of the forests from which the community extracts firewood for the stoves. This monitoring will consist on remote sensing analysis of forest cover and also of presence/absence of key indicator species.
Quality of employment	MDG 1, 3, 6.	VPA SANTANDER – ROBLES will provide quality employment opportunities through the creation of jobs needed for the monitoring of project activity in both temporary and permanent employment capacities. All persons will be given the same opportunities to apply to such jobs. Additionally, the implementation of the project is bringing additional know how in the region that will impact the local capacities for the construction of ICSs. This process is being developed together with the SEN ⁵ , the public agency for

⁵ <http://www.sena.edu.co/>

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		improvement of social development and technical capacities of workers in Colombia.
Livelihood of the poor	MDG 1 a, 3, 4, 5, 6 b	The project prioritizes the implementation in the poorest households, while will develop strategies and formulae for expanding the installation of cooking stoves in other households with higher incomes.
Access to affordable and clean energy services	MDG 1, 4, 5, 6, 7	The project is based on the reduction in the use of non-renewable biomass. The project will investigate the possibilities of generating dedicated firewood orchards following the strategy of completely displacing the utilization of non-renewable biomass in the baseline to completely renewable biomass in the project scenario.
Human and institutional capacity	MDG 3	The project will record all knowledge transfer and capacity building events. The project will not only monitor actions undertaken for a correct utilization of the stoves but also will invest on enhancing awareness about the environmental implications of the modification or destruction of the ecosystems in the vicinity of the project boundary.
Quantitative employment and income generation	MDG 1	All employees recruited for the project activity shall receive compensation as a function of their salaries. Additionally, several households have reported during the initial surveys that firewood is bought. Lowering the necessary quantity of firewood for fulfilling the energy needs of the households will have a direct impact on the households' economies.

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Technology transfer and technological self-reliance	MDG 3, 4, 5, 6, 7	The project will record and report all workshops, seminars and training-related opportunities held. The products generated will be shared in all communities involved in the project activity.
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Table 2. Sustainable Development eligibility criteria

B.3. Assessment and demonstration of additionality of the micro--scale VPA:

B.3.1 Description of how the anthropogenic emissions of GHG by sources are reduced as per the eligibility criteria defined in the registered micro-programme (*when Additionality is demonstrated at the micro- programme level*):

The additionality of this VPA is demonstrated following the guidance of the GS Micro Scale Scheme and the eligibility criteria defined in the PoA DD.

1. Each delivered stove has a thermal output below 150kW per unit as proved by laboratory tests.
2. Fundacion Natura as the managing entity confirms that this VPA is fully a voluntary action.
3. All eligibility criteria defined in the PoA DD are met, as demonstrated in Section B.2 of this document.
4. There is no government agency or law in Colombia that requires any individual to use the ICS technology.

B.3.2 Description of how the anthropogenic emissions of GHG by sources are reduced below those that would have occurred in the absence of the registered micro-scale project activity (*when Additionality is demonstrated at the activity level*):

According the GS guideline MICRO--PROGRAMME RULES AND PROCEDURES, regular cycle activities that meet any one of the criteria defined below shall be deemed additional:

- iv. The project activity is an emission reduction project in which each of the independent subsystems or measures achieve annual emission reductions equal to or less than 600 tCO₂ or annual energy savings equal to or less than 600 MWh or installed capacity is less than 1500 kW for households/SMEs or communities. The limits defined above apply to each subsystem or the measure implemented.

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Since the proposed VPA is a regular project and annual emission reduction of all the subsystem, which refers to the independent cook stove in the project is less than 600 tCO₂e, the VPA shall be deemed as additional.

B.4. Description of the sources and gases included in the project boundary and proof that the micro--scale VPA is located within the geographical boundary of the registered PoA.

>>

1. The sources and gases included in the project boundary are

	Source	Gas	Included?	Justification/Explanation
Baseline		CO ₂	Yes	Important source of emissions
	Heat delivery	CH ₄	Yes	Important source of emissions
		N ₂ O	Yes	Can be significant for some fuels

	Source	Gas	Included?	Justification/Explanation
Project		CO ₂	Yes	Important source of emissions
	Heat delivery	CH ₄	Yes	Important source of emissions
		N ₂ O	Yes	Can be significant for some fuels

No emissions from fuel generation or transport are included within the project boundary.

2. Micro--scale VPA is located within the geographical boundary of the registered PoA

B.5. Emission reductions:

The emissions reductions of a VPA will be calculated by application of the approved Gold Standard methodology GS TPDDTEC “Technologies and Practices to Displace Decentralized Thermal Energy Consumption” 11/04/2011 V1.0. When the baseline fuel and the project fuel are the same and the baseline emission factor and project emission are considered the same, the overall GHG reductions achieved by the project activity in year y are calculated as follows:

1 Emission reductions are calculated as:

$$ER_y = \bar{A}_{b,p} (N_{p,y} * U_{p,y} * P_{p,b,y} * NCV_{b,fuel} * (f_{NRP,b,y} * ER_{fuel,CO_2} + EF_{fuel,nonCO_2})) - \bar{A} LE_{p,y} \quad \text{Equation (2)}$$

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Where:

$\hat{a}_{b,y}$	= Sum over all relevant (baseline b/project p) couples
$N_{p,y}$	= Cumulative number of project technology-days included in the project database for project scenario p against baseline scenario b in year y
$U_{p,y}$	= Cumulative usage rate for technologies in project scenario p in year y, based on cumulative adoption rate and drop off rate revealed by usage surveys (fraction)
$P_{p,b,y}$	= Specific fuel savings for an individual technology of project p against an individual technology of baseline b in year y, in tons/day, as derived from the statistical analysis of the data collected from the field tests
$f_{NRB,b,y}$	= Fraction of biomass used in year y for baseline scenario b that can be established as non-renewable biomass (drop this term from the equation when using a fossil fuel baseline scenario)
$NCV_{b,fuel}$	= Net calorific value of the fuel that is substituted or reduced (IPCC default for wood fuel, 0.015 TJ/ton)
$EF_{b,fuel,CO_2}$	= CO2 emission factor of the fuel that is substituted or reduced. 112 tCO2/TJ for Wood/Wood Waste, or the IPCC default value of other relevant fuel
$EF_{b,fuel,nonCO_2}$	= Non-CO2 emission factor of the fuel that is reduced
$LE_{p,y}$	= Leakage for project scenario p in year y (tCO2e/yr)

2 The ex-ante baseline emission calculations are conducted as follows:

$$BE_{b,y} = B_{b,y} * ((f_{NRB,y} * ER_{b,fuel,CO_2}) + EF_{b,fuel,nonCO_2}) * NCV_{b,fuel} \quad \text{Equation (3)}$$

Where:

$BE_{b,y}$	= Emissions for baseline scenario b during the year y in tCO2e
$B_{b,y}$	= Quantity of fuel consumed in baseline scenario b during year y, in tons, as per by-default factors (cases with project performance field test only)
$f_{NRB,b,y}$	= Fraction of biomass used during year y for the considered scenario that can be established as non-renewable biomass (drop this term from the equation when using a fossil fuel baseline scenario)
$NCV_{b,fuel}$	= Net calorific value of the fuel that is substituted or reduced (IPCC default for wood fuel, 0.015 TJ/ton)

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- $EF_{b,fuel,CO_2}$ = CO2 emission factor of the fuel that is substituted or reduced. 112 tCO₂/TJ for Wood/Wood Waste, or the IPCC default value of other relevant fuel
- $EF_{b,fuel,nonCO_2}$ = Non-CO2 emission factor of the fuel that is reduced

$$B_{b,y} = N_{p,y} * P_{b,y} \quad \text{Equation (4)}$$

Where:

- $N_{p,y}$ = Project technology-days in the project database for project scenario p through year y
- $P_{b,y}$ = Specific fuel consumption for an individual technology in baseline scenario b during year y converted to tons/day

3 The ex-ante project emission calculations are conducted as follows:

$$PE_{p,y} = B_{p,y} * ((f_{NRB,y} * ER_{p,fuel,CO_2}) + EF_{p,fuel,nonCO_2}) * NCV_{p,fuel} \quad \text{Equation (5)}$$

Where:

- $PE_{p,y}$ = Emissions for project scenario p during year y in tCO2e
- $B_{p,y}$ = Quantity of fuel consumed in project scenario p during year y, in tons, and as derived from the statistical analysis conducted on the data collected during the project performance field tests (cases when no baseline performance field test are performed, e.g. by-default baseline factors)
- $f_{NRB,y}$ = Fraction of biomass used during year y that can be established as non-renewable biomass (drop this term from the equation when using a fossil fuel baseline scenario)
- $NCV_{p,fuel}$ = Net calorific value of the project fuel (IPCC default for wood fuel, 0.015 TJ/ton). This is equal to the baseline fuel NCV in projects which use the same fuel.
- $EF_{p,fuel,CO_2}$ = CO₂ emission factor of the project fuel. This is equal to the baseline fuel EF in projects which use the same fuel, 112 tCO₂/TJ for Wood/Wood Waste, or the IPCC default value of other relevant fuel

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$EF_{p,fuel,nonCO_2}$ = Non-CO₂ emission factor of the project fuel. This is equal to the baseline fuel EF in projects which use the same fuel.

The project emission calculations are conducted as follows:

$$B_{p,y} = N_{p,y} * ((P_{p,y} * U_{p,y}) + (P_{b,y} * (1 - U_{p,y}))) \quad \text{Equation (6)}$$

Where:

- $N_{p,y}$ = Project technology-days in the project database for project scenario p through year y
- $P_{p,y}$ = Specific fuel consumption for an individual technology in project scenario p during year y converted to tons/day
- $P_{b,y}$ = Specific fuel consumption for an individual technology in baseline scenario b during year y converted to tons/day
- $U_{p,y}$ = Cumulative usage rate for technologies in project scenario j during year y, based on cumulative installation rate and drop-off rate.

- 4 The ex-ante overall GHG reductions achieved by the project activity are then calculated as follows:

$$ER_y = \Delta BE_{b,y} - \Delta PE_{p,y} - \Delta LE_{p,y} \quad \text{Equation (7)}$$

Where:

- ER_y = Emission reduction for total project activity in year y (tCO₂e/yr)
- $BE_{p,y}$ = Baseline emissions for baseline scenario b in year y (tCO₂e/yr)
- $PE_{p,y}$ = Project emissions for project scenario p in year y (tCO₂e/yr)
- $LE_{p,y}$ = Leakage for project scenario p in year y (tCO₂e/yr)

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B.5.1. Data and parameters that are available at validation:

Data / Parameter:	f _{NRB} Santander - Robles
Data unit:	n/a
Description:	Fraction of biomass used in year y for baseline scenario b that can be established as non-renewable biomass
Source of data used:	Calculated by the CME
Value applied:	92.69%
Justification of the choice of data or description of measurement methods and procedures actually applied:	There is no default fNRB value defined by IPCC for Colombia. The calculation of the fNRB was undertaken by the CME based on the procedures described in the Annex I of the TPDDTEC and the data provided by the National Administrative Department for Statistics in Colombia (DANE by its Spanish acronym).
Any comment:	

Data / Parameter:	EF _{b,CO2}
Data unit:	tCO ₂ /TJ
Description:	CO ₂ emission factor arising from use of wood in baseline scenario
Source of data used:	Default value of the methodology GS TPDDTEC
Value applied:	112
Justification of the choice of data or description of measurement methods and procedures actually applied:	Default value of the methodology GS TPDDTEC
Any comment:	

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Data / Parameter:	EF _{p,CO2}
Data unit:	tCO ₂ /TJ
Description:	CO ₂ emission factor arising from use of wood in project scenario
Source of data used:	Default value of the methodology GS TPDDTEC
Value applied:	112
Justification of the choice of data or description of measurement methods and procedures actually applied:	Default value of the methodology GS TPDDTEC
Any comment:	

Data / Parameter:	EF _{p,nonCO2}
Data unit:	tCO ₂ /TJ
Description:	Non-CO ₂ emission factor arising from use of wood in project scenario
Source of data used:	IPCC defaults value
Value applied:	0.304
Justification of the choice of data or description of measurement methods and procedures actually applied:	IPCC defaults nonCO ₂ emission factor of wood: $EF_{p,nonCO2} = EF_{CH4} + EF_{N2O} = 0.3 + 0.004 = 0.304 \text{ tCO}_2/\text{TJ}$
Any comment:	

Data / Parameter:	NCV _b
Data unit:	TJ/ton
Description:	Net calorific value of the fuels used in the baseline

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Source of data used:	IPCC defaults
Value applied:	0.015
Justification of the choice of data or description of measurement methods and procedures actually applied:	
Any comment:	

B.5.2. Ex-ante calculation of emission reductions:

For the Ex-ante calculation of emission reductions all parameters that will be monitored during the project lifetime (no exact value available at the moment) are anticipated prior validation with results from Field Surveys, Lab Tests and Project Planning.

Data / Parameter:	$N_{p,y}$
Data unit:	days
Description:	Cumulative number of project technology-days included in the project database for project scenario p in year y
Source of data used:	Estimated. 2014 figures from pilot record and planning for future years
Value applied:	<p>Year 2014: 55 technology-days per stove.</p> <p>Year 2015-2020: 360 technology-days per stove.</p> <p>This makes a total of</p> <p>2014: 88,000</p> <p>2015: 1,440,000</p> <p>2016: 1,800,000</p> <p>2017: 2,160,000</p> <p>2018: 2,520,000</p> <p>2019: 2,880,000</p>

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	2020: 3,240,000
Justification of the choice of data or description of measurement methods and procedures actually applied:	
Any comment:	See relevant ER calculation spread sheet

Data / Parameter:	$U_{p,y}$
Data unit:	fraction
Description:	Cumulative usage rate for technologies in project scenario
Source of data used:	Usage annual surveys
Value applied:	For the ex-ante estimations, the value applied was 95%, based on the experience of the CME and DOs
Justification of the choice of data or description of measurement methods and procedures actually applied:	<p>The calculation has been undertaken assuming a very conservative usage rate trend that is described below:</p> <p>2014: 100%</p> <p>2015: 99%</p> <p>2016: 98%</p> <p>2017: 96%</p> <p>2018: 94%</p> <p>2019: 90%</p> <p>2020: 88%</p> <p>The value applied is the average of all usage rates for the seven years of the reporting period. The calculation can be considered conservative; since it must be taken into account that the ICS is the only device for cooking that will be left operative in the households. Since the old cooking structure will be removed the user that abandons the use of the ICS will have to construct an additional cooking device or place, which attending to what was observed in the field</p>

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	surveys seems very unlikely. However, and in order to be always on the conservative side of the calculation a usage rate of 95% has been considered for all years of the reporting period.
Any comment:	See relevant ER calculation spread sheet

Data / Parameter:	$P_{p,b,y}$
Data unit:	tons/day
Description:	Specific fuel savings for Fundacion Natura stoves calculated against the baseline scenario b in year y
Source of data used:	derived from the statistical analysis of the data collected from the field survey. Verified with Lab test results See calculation of KPT for the VPA
Value applied:	0.00288
Justification of the choice of data or description of measurement methods and procedures actually applied:	
Any comment:	

Data / Parameter:	$P_{b,y}$
Data unit:	tons/day
Description:	Specific fuel consumption for baseline stoves in baseline scenario b in year y
Source of data used:	Baseline survey and KPT developed for the stove See calculation of KPT for the VPA
Value applied:	0.01856
Justification of the choice of data or description of measurement	

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methods and procedures actually applied:	
Any comment:	

Data / Parameter:	$P_{p,y}$																																																																									
Data unit:	tons/day																																																																									
Description:	Specific fuel consumption for Fundacion Natura stoves in project scenario p in year y																																																																									
Source of data used:	Baseline survey and KPT developed for the stove See calculation of KPT for the VPA																																																																									
Value applied:	0.01568																																																																									
Justification of the choice of data or description of measurement methods and procedures actually applied:	<p>Table below presents the results of the KPT (per person).</p> <table border="1"> <thead> <tr> <th>User</th> <th>Baseline</th> <th>Project</th> </tr> </thead> <tbody> <tr><td>INES PINZON</td><td>3,30</td><td>3,87</td></tr> <tr><td>ABELARDO SOLANO</td><td>6,39</td><td>4,13</td></tr> <tr><td>MARIA DUARTE</td><td>5,58</td><td>4,67</td></tr> <tr><td>MELESIO DIAZ</td><td>2,58</td><td>2,62</td></tr> <tr><td>YOHANA PEREZ</td><td>3,86</td><td>3,03</td></tr> <tr><td>MIGUEL MANTILLA</td><td>4,83</td><td>3,22</td></tr> <tr><td>ADRIANA DUARTE</td><td>3,94</td><td>4,23</td></tr> <tr><td>PEDRO AYALA</td><td>4,69</td><td>2,82</td></tr> <tr><td>EVELIO QUESADA</td><td>2,90</td><td>2,54</td></tr> <tr><td>HILMA MANOSALVA</td><td>6,90</td><td>3,23</td></tr> <tr><td>JOHN ALMEIDA</td><td>4,54</td><td>3,74</td></tr> <tr><td>MIGUEL PEREZ</td><td>13,65</td><td>12,68</td></tr> <tr><td>HELI PEREZ</td><td>3,09</td><td>4,89</td></tr> <tr><td>LEONARDO MANOSALVA</td><td>8,63</td><td>4,15</td></tr> <tr><td>ISRAEL RINCON</td><td>2,72</td><td>3,01</td></tr> <tr><td>Benita Moreno</td><td>2,88</td><td>3,48</td></tr> <tr><td>Arcilia Moreno</td><td>3,15</td><td>4,24</td></tr> <tr><td>Isaias Moreno</td><td>4,09</td><td>3,32</td></tr> <tr><td>Marta Villanova</td><td>2,92</td><td>2,92</td></tr> <tr><td>Josefito Olave</td><td>4,30</td><td>4,28</td></tr> <tr><td>Alcira Villanova</td><td>1,41</td><td>1,78</td></tr> <tr><td>Rodrigo Olave</td><td>6,66</td><td>6,14</td></tr> <tr><td>Luis Medina</td><td>7,28</td><td>6,08</td></tr> </tbody> </table>		User	Baseline	Project	INES PINZON	3,30	3,87	ABELARDO SOLANO	6,39	4,13	MARIA DUARTE	5,58	4,67	MELESIO DIAZ	2,58	2,62	YOHANA PEREZ	3,86	3,03	MIGUEL MANTILLA	4,83	3,22	ADRIANA DUARTE	3,94	4,23	PEDRO AYALA	4,69	2,82	EVELIO QUESADA	2,90	2,54	HILMA MANOSALVA	6,90	3,23	JOHN ALMEIDA	4,54	3,74	MIGUEL PEREZ	13,65	12,68	HELI PEREZ	3,09	4,89	LEONARDO MANOSALVA	8,63	4,15	ISRAEL RINCON	2,72	3,01	Benita Moreno	2,88	3,48	Arcilia Moreno	3,15	4,24	Isaias Moreno	4,09	3,32	Marta Villanova	2,92	2,92	Josefito Olave	4,30	4,28	Alcira Villanova	1,41	1,78	Rodrigo Olave	6,66	6,14	Luis Medina	7,28	6,08
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	Fredy Rueda	2,43	3,82	
	Raul Sanchez	2,08	2,96	
	Carolina Rueda	2,31	1,75	
	Deogracias Díaz	7,57	2,08	
	Agustín Silva	7,63	5,93	
	Carlos Silva	3,07	2,70	
	Rafael Cardenas	3,87	3,18	
	Average	4,64	3,92	
	The mean family members number in the project area is 4. Then, the value applied was calculated as follows: $3.92 \times 4 / 1000$			
Any comment:				

1. The ex-ante baseline emission calculations are conducted as per Equation 3 of the TPDDTEC:

$$BE_{b,y} = B_{b,y} * ((f_{NRB,y} * ER_{b,fuel,CO_2}) + EF_{b,fuel,nonCO_2}) * NCV_{b,fuel}$$

Where:

- $BE_{b,y}$ = Emissions for baseline scenario b during the year y in tCO₂e
- $B_{b,y}$ = Quantity of fuel consumed in baseline scenario b during year y, in tons, as per by-default factors (cases with project performance field test only)
- $f_{NRB,b,y}$ = Fraction of biomass used during year y for the considered scenario that can be established as non-renewable biomass (drop this term from the equation when using a fossil fuel baseline scenario)
- $NCV_{b,fuel}$ = Net calorific value of the fuel that is substituted or reduced (IPCC default for wood fuel, 0.015 TJ/ton)
- $EF_{b,fuel,CO_2}$ = CO₂ emission factor of the fuel that is substituted or reduced. 112 tCO₂/TJ for Wood/Wood Waste, or the IPCC default value of other relevant fuel
- $EF_{b,fuel,nonCO_2}$ = Non-CO₂ emission factor of the fuel that is reduced. 34 tCO₂/TJ is adopted in the project including 30 tCO₂/TJ for CH₄ and 4 tCO₂/TJ for N₂O as IPCC default value for wood.

Quantity of fuel consumed in baseline scenario b during year y is calculated as follows:

$$B_{b,y} = N_{p,y} * P_{b,y}$$

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Where:

- $N_{p,y}$ = Project technology-days in the project database for project scenario p through year y
- $P_{b,y}$ = Specific fuel consumption for an individual technology in baseline scenario b during year y converted to tons/day

2. The ex-ante project emission calculations are conducted as Equation 5:

$$PE_{p,y} = B_{p,y} * ((f_{NRB,y} * ER_{p,fuel,CO_2}) + EF_{p,fuel,nonCO_2}) * NCV_{p,fuel}$$

Where:

- $PE_{b,y}$ = Emissions for project scenario p during year y in tCO₂e
- $B_{p,y}$ = Quantity of fuel consumed in project scenario p during year y, in tons, and as derived from the statistical analysis conducted on the data collected during the project performance field tests (cases when no baseline performance field test are performed, e.g. by-default baseline factors)
- $f_{NRB,y}$ = Fraction of biomass used during year y that can be established as non-renewable biomass (drop this term from the equation when using a fossil fuel baseline scenario)
- $NCV_{p,fuel}$ = Net calorific value of the project fuel (IPCC default for wood fuel, 0.015 TJ/ton). This is equal to the baseline fuel NCV in projects which use the same fuel.
- $EF_{p,fuel,CO_2}$ = CO₂ emission factor of the project fuel. This is equal to the baseline fuel EF in projects which use the same fuel, 112 tCO₂/TJ for Wood/Wood Waste, or the IPCC default value of other relevant fuel
- $EF_{p,fuel,nonCO_2}$ = Non-CO₂ emission factor of the project fuel. This is equal to the baseline fuel EF in projects which use the same fuel. 34 tCO₂/TJ is adopted in the project including 30 tCO₂/TJ for CH₄ and 4 tCO₂/TJ for N₂O as IPCC default value for wood.

The quantity of fuel consumed in project scenario is conducted as follows:

$$B_{p,y} = N_{p,y} * ((P_{p,y} * U_{p,y}) + (P_{b,y} * (1 - U_{p,y})))$$

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Where:

- $N_{p,y}$ = Project technology-days in the project database for project scenario p through year y
- $P_{p,y}$ = Specific fuel consumption for an individual technology in project scenario p during year y converted to tons/day
- $P_{b,y}$ = Specific fuel consumption for an individual technology in baseline scenario b during year y converted to tons/day
- $U_{p,y}$ = Cumulative usage rate for technologies in project scenario j during year y, based on usage annual surveys.

3. The ex-ante project leakage calculations are conducted as follows:

As defined on PoA Level and as described in the TPDDTEC methodology, every VPA must discuss the following potential sources of leakage:

L1) The displaced baseline technologies are reused outside the project boundary in place of lower emitting technology or in a manner suggesting more usage than would have occurred in the absence of the project.

This is not possible: the base line kitchen equipment needs to be destroyed before it can be removed (fixed installation).

L1 = 0

L2) The non-renewable biomass or fossil fuels saved under the project activity are used by non-project users who previously used lower emitting energy sources.

This seems quite improbable, since all neighbouring families could be included within the same baseline scenario, so no fuel switching would be possible as a consequence of the implementation of the project.

L3) The project significantly impacts the NRB fraction within an area, where other CDM or VER project activities account for NRB fraction in their baseline scenario.

There is no other CDM or VER project in the region

L3 = 0

L4) The project population compensates for loss of the space heating effect of inefficient technology by adopting some other form of heating or by retaining some use of inefficient technology.

Negligible. In the project region, stoves are mainly integrated in the kitchen and not in the living room. Based on DOs experience beneficiaries don't use stoves as a heating device. No users were found to use the kitchen as heating source.

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L4 = 0

L5) By virtue of promotion and marketing of a new technology with high efficiency, the project stimulates substitution within households who commonly used a technology with relatively lower emissions, in cases where such a trend is not eligible as an evolving baseline

Not applicable. As described under D.4.1 the existing Baseline Scenario is inefficient cooking devices. Additionally, more efficient cooking devices are almost impossible to be found in the area where this VPA takes place and the final users included within this VPA would not have enough financial resources to accede to this technology.

The result of the leakage assessment is that no potential source of leakage could be found at VPA Level that would lead to significant emissions. Therefore, leakage has been accounted as zero.

4. The project emission calculations are conducted as follows:

$$ER_y = \sum BE_{b,y} - \sum PE_{p,y} - \sum LE_{p,y}$$

Where:

ER_y	= Emission reduction for total project activity in year y (tCO ₂ e/yr)
$BE_{p,y}$	= Baseline emissions for baseline scenario b in year y (tCO ₂ e/yr)
$PE_{b,y}$	= Project emissions for project scenario p in year y (tCO ₂ e/yr)
$LE_{p,y}$	= Leakage for project scenario p in year y (tCO ₂ e/yr)

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B.5.3. Summary of the ex-ante estimation of emission reductions:

>>

Year	Estimation of project activity emission (tCO ₂)	Estimation of baseline emissions (tCO ₂)	Estimation of leakage (tCO ₂)	Estimation of overall emission reductions (tCO ₂)
2014	2.175	2.551	0	376
2015	35.587	41.740	0	6.153
2016	44.484	52.175	0	7.691
2017	53.380	62.610	0	9.230
2018	62.277	73.045	0	10.768
2019	71.174	83.480	0	12.306
2020	80.071	93.915	0	13.844
Total (tCO₂)	349.148	409.516	0	60.368

B.6. Application of the monitoring methodology and description of the monitoring plan:

Data / Parameter:	Up,y
Data unit:	Percentage
Description:	Usage rate in project scenario p during year y
Source of data used:	Annual Usage Surveys
Description of measurement methods and procedures to be applied:	A single usage parameter is weighted to be representative of the quantity of project technologies of each age being credited in a given project scenario.
QA/QC procedures to be applied:	Transparent Data Analysis and Reporting of Annual Usage surveys conducted. Detailed QA/QC procedures are included in the monitoring report
Any comment	Monitored Annually

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Data / Parameter:	Np,y
Data unit:	Days
Description:	Cumulative number of project technology days
Source of data used:	Annual Usage survey
Description of measurement methods and procedures to be applied:	A cumulative number of project technology days is weighted to be representative of the quantity of project technologies of each age being credited in a given project scenario
QA/QC procedures to be applied:	Transparent Data Analysis and Reporting of Annual Usage surveys conducted. Detailed QA/QC procedures are included in the monitoring report
Any comment	

Data / Parameter:	Pp,b,y
Data unit:	Tonnes
Description:	Specific fuel savings for an individual technology
Source of data used:	Annually project field tests
Description of measurement methods and procedures to be applied:	A cumulative number of project technology days is weighted to be representative of the quantity of project technologies of each age being credited in a given project scenario
QA/QC procedures to be applied:	Transparent Data Analysis and Reporting of Annual Usage surveys conducted. Detailed QA/QC procedures are included in the monitoring report
Any comment	

Data / Parameter:	LEp,y
Data unit:	t_CO2e per year
Description:	Leakage in project scenario p during year y

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Source of data used:	Baseline and monitoring surveys
Description of measurement methods and procedures to be applied:	Leakage in project scenario p during year y
QA/QC procedures to be applied:	Transparent data analysis and reporting
Any comment	

B.6.1. Description of the monitoring plan:

>> The following monitoring plan has been developed in accordance with the methodology Technologies and Practices to Displace Decentralized Thermal Energy Consumption

1. Monitoring Procedure

The monitoring plan developed for this project requires the continuous and/or periodic updates to the following records;

- a) Total Sales Record & identification of households
- b) Project (VPA) Database
- c) On-going Monitoring Survey

Total Sales Record and Project Database are to be updated continuously during the project life. On-going Monitoring Studies will be performed to measure or verify parameter values used in establishing ex ante emissions reductions calculations.

a) Total Sales Record & identification of households

A stoves distribution (and sales, as applicable) record will be maintained for all cookstoves distributed under by this VPA. To ensure accuracy of the records, at the time of installation an interview shall be conducted within the household of the installation to collect user characteristics and data about fuel consumption behaviour. This information will be entered into a database shortly after the installation and will be maintained by Fundacion Natura.

The total sales record will comply with the format laid out in section D. 7 of the PoA DD.

In parallel to the total sales record, the monitoring process will consider a checked that the process of identification of lowest-income households has been undertaken properly and that there is any sign of corruption in this process.

b) Project Database

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The project database is a combination of data from the total sales record and ongoing monitoring surveys. The project database will be divided into baseline emission reductions and project emission reductions, based on the results of the ongoing monitoring studies for the project scenario. This is done so that emission reductions can be calculated appropriately section by section. Technologies aged beyond their useful lifetime or no longer in use, as established in the usage survey, are removed from the Project Database and no longer credited. The project (VPA) database shall be in the prescribed format as laid out in section D. 7 of the PoA DD.

c) On-going Monitoring Studies

The following ongoing monitoring studies for the cookstoves project following validation of the associated initial project studies. These monitoring studies will investigate and define parameters that could not be determined at the time of the initial project studies or that change with time.

i.) Monitoring Survey

Will be completed annually, beginning 1 year after project registration.

The Monitoring Survey will investigate changes over time in the Project Scenario by surveying end users with project technologies on an annual basis. It will be conducted for the project scenario of this VPA after the first verification event and provide critical information on year-to-year trends in end user characteristics such as technology use, fuel consumption and seasonal variations.

Parameters for assessment include:

1. Specific fuel saving from a given technology

ii) Usage Survey

Will be completed annually, or more frequently, and in all cases on time for any request of issuance. The usage survey will provide a single usage parameter that will be weighted based on drop off rates that are representative of the age distribution for project technologies in the total sales record.

A usage parameter will be established to account for drop off rates as this project technology ages and is updated.

Prior to verification, a usage parameter will be required that is weighted to be representative of the quantity of project technologies of each age being credited. For example, if only technologies in the first year of use (age 0-1) are being credited, a usage parameter will be established through a usage survey for technologies aged 0-1.

If an equal number of technologies in the first year of use (age 0-1) and second year of use (age 1-2) are credited, a usage parameter is required that will be weighted to be equally representative of drop off rates for technologies age 0-1 and age 1-2.

The minimum total sample size will be 100, with at least 30 samples for project technologies of each age being credited. Interviews in a usage survey will be conducted in person and will include expert observation by the interviewer for spot checks to confirm self-reports within the kitchen in question, while the remainder will be conducted via telephone by the same interviewers on condition that in-

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kitchen observational interviews are first concluded and analysed such that typical circumstances are well understood by the telephone interviewers.

The usage parameter will be used to determine the number of operational project technologies. The total percentage of households that completely abandon use of the cookstoves must be immediately applied to the calculations of emission reductions from the project activity and therefore not credited.

iii) Project Field Test Update

(Will be completed every other year or more frequently)

The project technology will not have any material changes throughout the crediting period but the annual monitoring exercises will determine how the thermal efficiency of the stove changes in time and observe if there is a decrease in savings of fuel.

iv) Baseline Field Test Update

This project will adopt a fixed baseline and therefore FT updates will not be necessary, unless it is decided to renew the crediting period. At this time the Baseline Field Test will have to be undertaken again and figures will have to be updated.

v) Leakage Assessment

As was demonstrated in the PoA DD there should be no leakage assessment for VPA s included in the proposed PoA

vi) According to the section III.1 of the TPDDTEC methodology, the fNRB can remain fixed by baseline study for a given crediting period, updated if necessary.

2. Quality Assurance and Quality Control

Fundacion Natura will be responsible for accurate and transparent record keeping, monitoring and evaluation. All supporting documentation and records for the project will be easily accessible for spot checking and cross referencing by any third party.

Contact information in the total sales record will allow a project auditor to contact and visit end users. An auditor will also have to be able to cross reference pertinent project documentation, which will include archives such as production records (e.g. materials purchases, internal logs), financial accounts and sales records.

Data collated from the total sales record and the VPA project database will be used to conduct monitoring and usage surveys in the accordance with the PPS systematic sampling approach described in the PoA DD.

Project preparation and monitoring schedule	Prior to validation	Prior to first verification	Annual: after first verification	Every two years: after first verification

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ER estimation for DD				
Baseline studies				
NRB assessment	CME			
Baseline survey	VPA Operator			
Baseline FT		VPA Operator		
Project studies				
Preliminary estimation – ER, fNRB, etc.	CME, VPA Operator			
Project survey		VPA Operator		
Project FT		VPA Operator		
Ongoing monitoring tasks				
Maintenance of total sales record and project database	CME			
Usage survey			VPA Operator	
Monitoring survey			VPA Operator	
FT updates				VPA Operator
Leakage assessment	N/A	N/A	N/A	N/A
Updating NRB assessment	N/A	N/A	N/A	N/A

Table 3. QC/QA processes

SECTION C. Stakeholders' comments

>> Please note that the blind scoring exercise during stakeholder consultation need not be carried out.

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

>> As stated in section C. 2 of the PoA DD local stakeholder consultations are to be conducted at the VPA level. Graphic documentation including the agenda, screenshot of personal invitations, participants list and invitation tracking can be consulted in Annex 3.

C.2. Summary of the comments received:

Question	Answer
Is my municipality included in the program?	No. Municipalities have been prioritized in this first phase attending to the non-renewability character of the forest masses that source with firewood the lowest-income households
How many stoves will you install per municipality?	It depends on the financing capacity and the compromises achieved with each municipality
Can a civil association participate in the PoA?	Yes, if it coordinates with each municipality
Which is the administrative procedure for signing a cooperation agreement considering that the law does not allow the municipality to sign it at this time, before the national presidential election takes place?	The municipality can sign a letter of intention and formalize the situation once the election period is over and the law does not apply anymore
To which extent are the ICSs different to the conventional stoves?	They are significantly different in terms of energy efficiency, and this has implications in the quantity of firewood used
The owners of big properties consume high quantities of firewood. Is there a project for them?	Not in this phase of the PoA
How will the project ensure that the people that need it most are indeed the receivers of the new technologies?	This is a requirement for the municipalities involved. The CME will undertake site visits and check that this process has been done correctly. If an irregular receiver is identified, the municipality will have to cover all the costs of the stove. Additionally, during the process of monitoring, this aspect of the identification process will be revisited.
How does the PoA identify lowest-income households that live not in their lands but in the property of someone else with higher income?	The program cannot ensure that these specific kinds of households are identified in all cases. However, even when installing an efficient cookstove in a property of someone that does not belong to the lowest stratum would go against the

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	philosophy of this PoA, the CME will take special care and investigate each specific case in which this situation is encountered and determine which is the best solution on each case.
What does a stove cost?	Including all costs, 770,000 COP, around 408 USD
Can a master builder come to my house to do a stove for me, that am excluded from the program?	Yes, if it coincides with the establishment of other ICSs in your vicinity
Which is the timeframe a municipality has to answer the proposal of collaboration?	One month, but this is flexible
Will the master builders to be capacitated belong to each municipality included in the program?	Yes. They will be capacitated in San Gil and in Malaga
If I am included in a Governmental program for assistance of the poorest, does this exclude me from this PoA?	No. This is a voluntary program and not a Governmental Program. The identification of the final users by the municipalities is based on the registry established by the SISBEN ⁶ . Consequently, the identification of final users is not biased by the identification undertaken previously by governmental programs. This aspect had not been considered previously in the design of the PoA and will be taken in consideration.
Will urban population be included in the PoA?	Not at this stage of the PoA
Suggestion: people included in the program should undertake reforestation activities	This has been considered already and it is being negotiated with the municipalities and environmental corporations of each department

C.3. Report on how due account was taken of any comments received and on measures taken to address concerns raised:

Some of the comments raised by the participants have had significant impacts on the design or implementation of the proposed PoA. Both comments are highlighted below:

⁶ SISBEN is the Governmental System for Identification of Potential Beneficiaries of Social Programs. This system classifies all Colombians and all Colombian residents according to their social stratum. It is very widespread and developed and serves as a good basis for the identification of potential beneficiaries of the first phase of the PoA. More information at www.sisben.gov.co

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1. How does the PoA identify lowest-income households that live not in their lands but in the property of someone else with higher income?
 2. If I am included in a Governmental program for assistance of the poorest, does this exclude me from this PoA?
1. CME will have to ensure that all DOs do consult with the respective Municipalities information that is not only referred to households in areas of the municipality but also for households occurring within the property of other landowner with higher income. The CME will design a procedure for identifying households not living in their own properties and will also define a framework that highlights under which conditions these households would be included in the PoA.
2. The CME will have to design a procedure that identifies which households are included in Governmental programs for assistance to poorest and then develop an awarding process that does not segregate between beneficiaries of governmental assistance and non-beneficiaries.

C.4. Report on the Continuous input mechanism selection:

>> The LSC did not address the continuous grievance mechanism. The CME will set up in place a three part continuous input / grievance mechanism involving a physical book, phone number and email address. This shall be communicated in the stakeholder feedback round and reported in the final VPA DD at the conclusion of the validation process.

Discuss the Continuous input / grievance mechanism expression method and details, as discussed with local stakeholders.

	Method Chosen (include all known details e.g. location of book, phone, number, identity of mediator)	Justification
Continuous Input / Grievance Expression Process Book	A book wil be available at the town hall of each municipality participating of the program	If any of the project participants wants to express an idea/comment on an anonymous way, can always do it by visiting the town hall of the municipality.
Telephone access	+57 1 245 5700	
Internet/email access	reclamaciones@natura.org.co	

C.5. Report on stakeholder consultation feedback round:

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>> The Feedback Round started in September 7 of 2015 and finished in November 30 of 2015. The procedures used to perform the feedback were:

In response to stakeholder concerns raised during the public consultation held on May 9, 2014, vehicles for public comment were made available both in physical and electronic format between September 7 and November 30, 2015. The dissemination of the feedback was carried out through radio broadcast.

Members of the public were able to provide their comments in registries placed in the administrative centers of the municipalities where the project was undertaken. Alternatively, electronic comment submission was available via email sent to estufas@natura.org.co.

The initial public concerns to which the public was asked to respond were provided both in hard copy format with the paper registries as well as online at the following webpage:

<http://www.mvccolombia.co/index.php/115-observaciones-al-primer-proyecto-voluntario-de-carbono-de-estufas-eficientes-de-lena-en-colombia-vpa-santander-remitida-por-gold-standard-foundation>

Although steps were taken to assess public concerns and satisfaction with this project, no substantive comments were received:

Comment	Municipality
I have no complaints whatsoever, it is a good stove, well crafted	Encino
Excellent	San Andrés

Municipalities with no filed comments include **Charalá, Coromoro, Gambita, Onzaga, San Joaquín, Molagavita, Macaravita, Miranda, Enciso** and **Málaga**.

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Annex 1

CONTACT INFORMATION ON ENTITY/INDIVIDUAL RESPONSIBLE FOR THE MICRO--SCALE VPA

Organization:	FUNDACIÓN NATURA
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State/Region:	Bogota DF
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FAX:	
E-Mail:	rlgomez@natura.org.co
URL:	www.natura.org.co
Represented by:	Roberto León Gómez
Title:	Sub Director of Local Development and Global Change
Salutation:	Mr.
Last Name:	Gómez Charry
Middle Name:	León
First Name:	Roberto
Department:	
Mobile:	(+57) 311 8104010
Direct FAX:	
Direct tel:	
Personal E-Mail:	

TITLE OF THE MICRO-PROGRAMME: *Fundacion Natura Colombia Cookstove PoA*

Annex 2



ANNEX D - OFFICIAL DEVELOPMENT ASSISTANCE DECLARATION

Date: 27 August 2015

The Gold Standard Foundation

79 Avenue Louis Casai

Geneva Cointrin, CH-1216

Switzerland

RE: Declaration of Non-Use of Official Development Assistance (ODA) by Project Owner of GS3510 ("Project")

Fundación Natura Colombia

As Project Owner of the above-referenced Project, and acting on behalf of all Project Participants, I now make the following representations:

Fundación Natura Colombia

I hereby declare that I am duly and fully authorized by the Project Owner of the above-referenced project to act on behalf of all Project Participants and make the following representations:

I. The Gold Standard Documentation

I am familiar with the provisions of The Gold Standard Documentation relevant to ODA. I understand that the above-referenced Project is not eligible for Gold Standard registration if the Project receives or benefits from ODA with the condition that some, or all, of the carbon credits [CERs, ERUs, or VERS] coming out of the Project are transferred to the ODA donor country. I hereby expressly declare that no financing provided in connection with the above-referenced Project has come from or will come from ODA that has been or will be provided under the condition, whether express or implied, that any or all of the carbon credits issued as a result of the Project's operation will be transferred directly or indirectly to the country of origin of the ODA.

In the event the Project is a Programmes of Activities where the CME is also implementing one or more Component Project Activities (CPAs) or Voluntary Project Activities (VPAs), I further acknowledge and understand that this Declaration is applicable to all of the CPAs/VPAs where the CME and the CPA/VPA implementing entity is the same.

II. Duty to Notify Upon Discovery

If I learn or if I am given any reason to believe at any stage of project design or implementation that ODA has been used to support the development or implementation of the Project covered by this Declaration, or that an entity providing ODA to the host country may at some point in the future benefit directly or indirectly from the carbon credits generated from the Project as a condition of



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investment, I will notify The Gold Standard immediately using the Amended ODA Declaration Form provided below.

III. Investigation

The Gold Standard reserves the right to conduct an investigation into any project it reasonably believes may be receiving ODA with the condition that some or all of the carbon credits from the Project will be transferred to the ODA donor country.

IV. Sanctions

I am fully aware that the sanctions identified in The Gold Standard Terms and Conditions may be applied to me or the above-referenced Project in the event that any of the information provided above is false or I fail to notify The Gold Standard of any changes to ODA in a timely manner.

I swear that all of the statements contained herein are true to the best of my knowledge.

Signed:

Name: Elsa Matilde Escobar
Title: Executive Director
On behalf of: Fundación Natura Colombia
Place: Bogotá, Colombia.



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Annex 3

DOCUMENTATION OF THE STAKEHOLDER CONSULTATION MEETING



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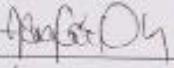
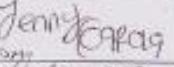
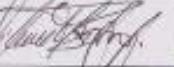
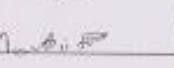
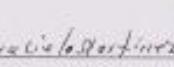
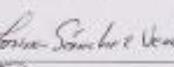
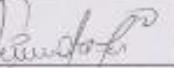
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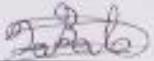
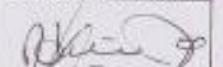
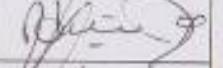
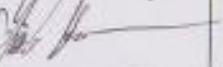
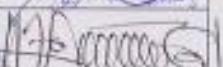
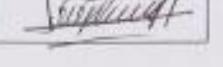
Attendants list

**LISTA DE PARTICIPANTES
CONSULTA PÚBLICA VPA. 2 – DEPARTAMENTO DE SANTANDER**

Lugar: Auditorio Centro Comercial El Puente – San Gil Santander	Fecha: Mayo 9 de 2014	Hora: 9 AM – 12M				
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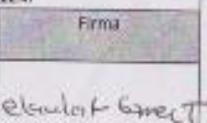
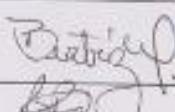
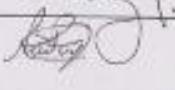
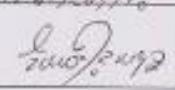
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Laura Mariana F	F	Cinkelado		3212302119	Laura.mariana	
Laura Almodóvar	F	Cinkelado			Laura.Almodovar	

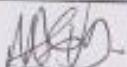
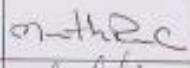
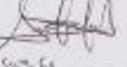
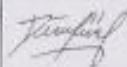
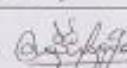
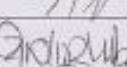
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Maria Esteban	F			3112698693		Maria Esteban
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CARLOS MARIO ARAQUE C	M			3112249913		Carlos Mario Araque C

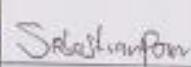
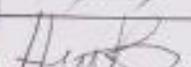
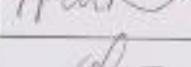
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Gloria Garcia	F	Alcaldia Pobres del Cesar	Jef. Plataforma	3152543750	plataformapobredel cesar.santander.gov.co	

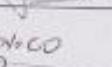
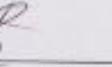
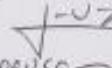
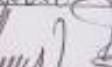
TITLE OF THE MICRO-PROGRAMME: Fundacion Natura Colombia Cookstove PoA

**LISTA DE PARTICIPANTES
CONSULTA PÚBLICA VPA. 2 – DEPARTAMENTO DE SANTANDER**

Lugar: Auditorio Centro Comercial El Puente – San Gil Santander	Fecha: Mayo 9 de 2014	Hora: 9 AM – 12M				
Nombre y apellidos	Sexo	Organización (Si aplica)	Cargo u ocupación	Tel./Celular	Correo electrónico	Firma
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Óscar E. Gómez D.	H.	O. A.S.	—	—	—	
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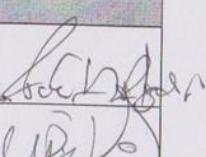
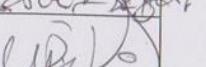
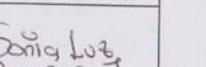
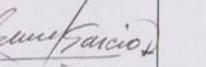
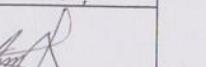
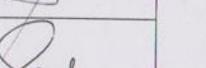
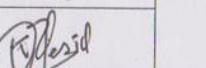
TITLE OF THE MICRO-PROGRAMME: Fundacion Natura Colombia Cookstove PoA

**LISTA DE PARTICIPANTES
CONSULTA PÚBLICA VPA. 2 – DEPARTAMENTO DE SANTANDER**

Lugar: Auditorio Centro Comercial El Puente – San Gil Santander	Fecha: Mayo 9 de 2014	Hora: 9 AM – 12M				
Nombre y apellidos	Sexo	Organización (Si aplica)	Cargo u ocupación	Tel./Celular	Correo electrónico	Firma
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Adriana Beccaria	F	Concejal	concejal	3114749827		
Jorge Vega Rojas	M	Secretario de Gobierno	Secretario de Gobierno	3214489923	jvegares@encina.santander.gov.co	
Edwin Vargas	M	Alcaldia Ur. Colombia	Secretario de Planeacion	3212051694	edvargas@gmail.com	

TITLE OF THE MICRO-PROGRAMME: Fundacion Natura Colombia Cookstove PoA

**LISTA DE PARTICIPANTES
CONSULTA PÚBLICA VPA. 2 – DEPARTAMENTO DE SANTANDER**

Lugar: Auditorio Centro Comercial El Puente – San Gil Santander			Fecha: Mayo 9 de 2014	Hora: 9 AM – 12M		
Nombre y apellidos	Sexo	Organización (Si aplica)	Cargo u ocupación	Tel./Celular	Correo electrónico	Firma
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Oscar Miguel Jaya Arcabí	M	Comunidad municipio málaga		3118401100	malojayaunidescor Jaya2@yahoo.com	
Sofía Luz Barrera J.	F	Ama de casa		3118065501	bebeton26@ Hotmail.com	
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Manuel Yesid Ochoa Ruiz	M	RED UNIDOS	COGESTOR SOCIAL	3133934843	magutescontralco @gmail.com	
OMAR CABODZO	M			3113715541	ocards70dia220 @hotmail.com	

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Invitation to the Local Stakeholder as sent per regulatr post and also as attachment of email



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Local Radio stations. Category code A:

Municipalit y	Local radio station	Telephone		Contact name	email	
Capitanejo						
Enciso						
Macaravita						
Molagavita						
Malaga	Emisora Latina Stereo - Comercial	(7) 6607834	311 281 4270	Edwar Cristancho	secretarialatina@hotmail.com latinaestereo@yahoo.es	
	Emisora Los Andes Stereo	(7) 6617510	311 233 9226			
Onzaga						
San Andres						
San Joaquin						
San Jose de Miranda						
San Miguel						
Charalá						
Encino	Emisora Chachalu Stereo		3144198890			
Coromoto	Emisora Comunitaria La Voz de los moros		3103298717	ELIGIO BELTRAN		
Gambita			310 587 1669		parroquiagambita@hotmail.com	
	Emisora Renacer Stereo	(7) 717381 0				emisorarenacer@hotmail.com

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Mogotes	Mogotes Estereo	(7) 7279406	3127737126			
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Municipalities and representatives. Category code B:

Municipality	Name	Address	Telephone		email		Website
			Tel. fijo	Fax	Personal	Work	
Aguada	Jaime Augusto Agon Ariza	Carrera 4 No. 2-73	(57 7) 756 55 18	(57 7) 756 55 18	alcaldia@aguada-santander.gov.co	contactenos@aguadasantander.gov.co	http://www.aguadasantander.gov.co
Albania	José Vicente Rodríguez Ariza	Calle 5 No 4 - 40	(57 7) 320 8 53 51 18	(57 7) 780 07 10		contactenos@albaniasantander.gov.co	http://www.albaniasantander.gov.co
ARATOC A	Willer Fabián Beltrán Rueda	Calle 4 No 4 - 38	(57 7) 726 67 00	(57 7) 726 66 87		contactenos@aratocasantander.gov.co	http://www.aratocasantander.gov.co
BARBOS A	Maryury Rocío Galeano Jiménez	Carrera 9 No 7 - 15	(57 7) 748 63 41	(57 7) 748 63 41		contactenos@barbosasantander.gov.co	http://www.barbosa-santander.gov.co
BARICHA RA	Iván Alonso López Vesga	Calle 5 No 6 - 39	(57 7) 726 70 52	(57 7) 726 72 05		contactenos@barichara-santander.gov.co	http://www.baricharasantander.gov.co
BARRAN CABERM EJA	Elkin David Bueno Altahona	Carrera 5a No 50-43	(57 7) 611 55 55	(57 7) 622 90 91		contactenos@barrancabermeja-santander.gov.co	http://www.barrancabermeja.gov.co
BETULIA	Ángel Miro Melo	Carrera 5 No	(57 7)	(57 7)		contactenos@betulia-	http://www.betulia-

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	Orostegui	5 - 35	625 92 23	625 93 43		santander.gov.co	santander.gov.co
BOLIVAR	Wilson Orlando Gamboa Sedano	Calle 9 No 3- 31	(57 7) 756 90 06	(57 7) 756 90 06		contactenos@bolivar-santander.gov.co	http://www.bolivar-santander.gov.co
BUCARA MANGA	Luis Francisco Bohórquez Pedraza	Calle 35 No 10 - 43	(57 7) 633 70 00	(57 7) 652 17 77		alcaldia@bucaramanga.gov.co	http://www.bucaramanga.gov.co
CABRERA	Néstor Álvarez Mantilla	Carrera 7 No 7 - 43	(57) 311 529 56 01			contactenos@cabrera-santander.gov.co	http://www.cabrera-santander.gov.co
CALIFORNIA	Víctor Armando Arias Celis	Carrera 2 No 1-25	(57 7) 629 82 59	(57 7) 629 82 60		contactenos@california-santander.gov.co	http://www.california-santander.gov.co
CAPITAN EJO	Isidro Mogollón Blanco	Calle 5 No 5 - 48	(57 7) 660 00 32	(57 7) 660 01 01		contactenos@capitaneijo-santander.gov.co	http://www.capitanejo-santander.gov.co
CARCASÍ	Ezequiel Sanabria Basto	Calle 3 No. 2- 03	(57 7) 660 65 12	(57 7) 660 65 12		contacto@carcasí-santander.gov.co	http://www.carcasi-santander.gov.co
CEPITÁ	Pedro Pablo Carreño Quiñones	Palacio Municipal	(57 7) 656 92 40	(57 7) 656 92 40		contactenos@cepita-santander.gov.co	http://www.cepita-santander.gov.co
CERRITO	Sabino Ramírez Calderon	Calle 6 No 5 - 52	(57 7) 660 23 44	(57 7) 660 23 44		contacto@cerrito-santander.gov.co	http://www.cerrito-santander.gov.co
CHARAL Á	Fabio León Ardila	Carrera 17 No 24 - 11	(57 7) 725 80	(57 7) 725 77	alcaldia@charala-santander.gov.co	contacto@charala-santander.gov.co	http://www.charala-santander.gov.co

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			08	56			
CHARTA	Ezequiel Suárez Villabona	Carrera 1 No. 2 - 99	(57 7) 66 95 19	(57 7) 66 95 34		contacto@charta-santander.gov.co	http://www.charta-santander.gov.co
CHIMA	Nelson Cadena Acuña	Carrera 5 No 5 - 08	(57 7) 719 72 64	(57 7) 719 72 69		contactenos@chima-santander.gov.co	http://www.chima-santander.gov.co
CHIPATA	Argemiro Ángulo Díaz	Carrera 6 No 3 - 17	(57 7) 756 54 94	(57 7) 756 57 88		contactenos@chipata-santander.gov.co	http://www.chipata-santander.gov.co
CHIMITA RRA	Samuel Soto Carreño	Carrera 5 No 6 - 10	(57 7) 626 02 42	(57 7) 626 08 70		contactenos@cimitarra-santander.gov.co	http://www.cimitarra-santander.gov.co
CONCEPCIÓN	Romualdo Reyes Olivares	Calle 7 No 3 - 16	(57 7) 660 32 19	(57 7) 660 32 51		contacto@concepcion-santander.gov.co	http://www.concepcion-santander.gov.co
CONFINES	Marcos Prada Jaimes	Calle 5 No 5 - 28	(57 7) 80 21 19	(57 7) 80 21 37		contactenos@confines-santander.gov.co	http://www.confines-santander.gov.co
CONTRATACION	Rubén Acuña Galeano	Carrera 4 No 6 - 51	(57 7) 717 11 39	(57 7) 717 11 39		contactenos@santander.gov.co	http://www.contratacion-santander.gov.co
COROMORO	Wilson Hernán Sanabria Pico	Calle 5 No 5 - 22	(57 7) 724 75 16	(57 7) 724 75 16		contactenos@coromoro-santander.gov.co	http://www.coromoro-santander.gov.co
CURITÍ	Alexander Castañeda Duarte	Calle 8 No 8 - 55	(57 7) 718 72 45	(57 7) 718 72 45		contactenos@curiti-santander.gov.co	http://www.curiti-santander.gov.co

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EL CARMEN DE CHUCURÍ	Alfonso Díaz Montañez	Calle 3 No 4 - 30	(57 7) 614 05 80	(57 7) 614 05 82		contactenos@elcarmen-santander.gov.co	http://www.elcarmen-santander.gov.co
EL FLORIÁN	Néstor Vladimir Forero Niño	Calle 4 No 1a - 45	(57 7) 312 485 60 25			contactenos@florian-santander.gov.co	http://www.florian-santander.gov.co
EL GUACAMAYO	Fernando Andrés Balaguera Díaz	Calle 5 No 5 - 62	(57) 314 333 92 46			contactenos@elguacamayo-santander.gov.co	http://www.elguacamayo-santander.gov.co
EL PEÑÓN	Bercely Quiroga Vargas	Palacio Municipal	(57) 320 858 59 67			contactenos@elpenon-santander.gov.co	http://www.elpenon-santander.gov.co
EL PLAYÓN	Edgar De Jesús Sanguino Rodriguez	Carrera 5 No 12 - 41	(57 7) 629 20 64	(57 7) 629 20 64		contacto@elplayon-santander.gov.co	http://www.elplayon-santander.gov.co
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ENCISO	Jaime Castellanos León	Carrera 4 No 4 - 43	(57 7) 663 30 11	(57 7) 663 30 11		contacto@enciso-santander.gov.co	http://www.enciso-santander.gov.co
FLORIDA BLANCA	Carlos Roberto Alexander Ávila Aguilar	Calle 5 No 8 - 25	(57 7) 649 77 77	(57 7) 649 75 83		contactenos@floridablanca.gov.co	http://www.floridablanca.gov.co
GALÁN	Jorge Martínez Galvis	Calle 6 No 5 - 35	(57 7) 721 93 06	(57 7) 721 93 49		contactenos@galan-santander.gov.co	http://www.galan-santander.gov.co

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JORDÁN	Ciro Antonio	Palacio	(57) 320			contacto@jordan-	http://www.jordan-

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	Bautista Bayona	Municipal	288 49 71			santander.gov.co	santander.gov.co
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			40	98			
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PÁRAMO	Mauricio Patiño Rico	Carrera 3 No 3 - 40	(57 7) 725 89 10	(57 7) 725 89 06		http://www.paramo-santander.gov.co	contactenos@paramo-santander.gov.co
PIEDECUESTA	Angel De Jesús Becerra Ayala	Carrera 7 No 9 - 43	(57 7) 656 15 29	(57 7) 656 15 29		contacto@alcaldiadepiedecuesta.gov.co	http://www.alcaldiadepiedecuesta.gov.co
PINCHOTE	Lucio Ramírez Pinzón	Carrera 5 No 4 - 13	(57 7) 724 87	(57 7) 724 87		contactenos@pinchotesantander.gov.co	http://www.pinchotesantander.gov.co

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			88	88			
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PUENTE PARRA	Mildreth Zamora Guerra	Calle 9 con Carrera 6 Esquina	(57 7) 627 50 90	(57 7) 627 50 90	-	contactenos@puertoparra-santander.gov.co	http://www.puertoparra-santander.gov.co
PUERTO WILCHES	Germán Hernando Duran Caicedo	Carrera 3 No 2 - 104	(57 7) 613 25 68	(57 7) 613 25 68		contactenos@puertowilches-santander.gov.co	http://www.puertowilches-santander.gov.co
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