



Validation report form for post-registration changes for GS project activities
(Version 02.0)
Complete this form in accordance with the instructions attached at the end of this form.
BASIC INFORMATION

Title and GS reference number of the project activity	Buenos Aires Renewable Energy Project Ref.: GS2290
Process track	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report on PRCs	1.0
Completion date of the validation report on PRCs	13/11/2017
Type(s) of PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baselines <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation project activities
Version number of GS Passport to which this report applies	05
Project participants	- Sustainable Carbon - Projetos Ambientais Ltda - Patrícia Mattos de Cunha – EPP (Buenos Aires Ceramic)
Host Party	Brazil
Applied methodologies and standardized baselines	Methodology: AMS-I.E – version 5.0 – Switch from Non-Renewable Biomass for Thermal Applications by the User
Mandatory sectoral scopes linked to the applied methodology	Sectoral Scope: 1
Conditional sectoral scopes linked to the applied methodologies	-
Name of DOE	Earthood Services Private Limited

<p>Name, position and signature of the approver of the validation report on PRCs</p>	 <p>Dr. Kaviraj Singh Managing Director</p>
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SECTION A. Executive summary

This PRC validation was performed along with 1st GS verification of the project activity. Refer to Section A of the Verification Certification Report

SECTION B. Validation team, technical reviewer and approver**B.1. Validation team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Verification findings
1.	Team Leader	EI	Cruz	Sergio	Central Office	Y	Y	Y	Y
2.	Local Expert	EI	Cruz	Sergio	Central Office	Y	Y	Y	Y
3.	Methodological Expert	EI	Cruz	Sergio	Central Office	Y	Y	Y	Y
4.	Technical Expert	EI	Cruz	Sergio	Central Office	Y	Y	Y	Y

B.2. Technical reviewer and approver of the validation report on PRCs

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical Reviewer	EI	Sebben	Marcelo	Central Office
2.	Technical Expert	EI	Sebben	Marcelo	Central Office
3.	Approver	IR	Singh	Kaviraj	Central Office

SECTION C. Means of validation**C.1. Desk/document review**

The PRC validation of post registration changes is performed primarily as a desk review of the documents submitted at various stages of assessments. The review is performed by assessment team using dedicated protocols (checklists). The assessment team cross checks the information provided in the documents (MR) and information from sources other than those used, if available, and conducts independent background investigations.

The desk review and all other activities were performed as part of the 1st GS verification of the project activity.

C.2. On-site inspection

Duration of on-site inspection: 27/09/2017				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening meeting at the Ceramic	Buenos Aires	27/09/2017	Sergio Cruz
2.	Implementation and operation of project activity	Buenos Aires	27/09/2017	Sergio Cruz
3.	Physical inspection of the project activity	Buenos Aires	27/09/2017	Sergio Cruz
4.	Management and operational system	Buenos Aires	27/09/2017	Sergio Cruz

5.	Review of ER calculations in accordance with applied methodology and relevant tools Review of monitored data and relevant document	Buenos Aires	27/09/2017	Sergio Cruz
6.	Interview with the local stakeholder	Buenos Aires	27/09/2017	Sergio Cruz
7.	Presentation of findings	Buenos Aires	27/09/2017	Sergio Cruz
8.	Closing meeting	Buenos Aires	27/09/2017	Sergio Cruz

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Felipe	Elleny	Buenos Aires Ceramic	27/09/2017	Monitoring of production, biomass and SD Indicators	Sergio Cruz
2.	Prado	Guilherme	Sustainable Carbon	27/09/2017	Monitoring of project activity and Review of monitored data ER calculations	Sergio Cruz
3.	Cunha	Rodolfo	Buenos Aires Ceramic	27/09/2017	Management of the project activity; management of ceramics and market conditions	Sergio Cruz
4.	Queiroz	Danilo	Danilo Queiroz	27/09/2017	Biomass supplier (algaroba)	Sergio Cruz
5.	Silva	Severino	Buenos Aires Ceramic	27/09/2017	Employees' working conditions	Sergio Cruz
6.	Rissone	Cubano	Processos e Sistemas	27/09/2017	Operation of ceramics	Sergio Cruz

C.4. Sampling approach

Not applicable.

C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	-	-	-
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baselines	-	-	-
Corrections	-	-	-
Changes to the start date of the crediting period	-	-	-
Inclusion of a monitoring plan	-	-	-
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools	-	1	-
Changes to the project design	-	-	-
Changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
Total	-	1	-

SECTION D. Validation findings**D.1. Compliance with PDD form**

Means of validation	Not applicable
Findings	-
Conclusion	Not applicable

D.2. Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines

Means of validation	Not applicable
Findings	-
Conclusion	Not applicable

D.3. Corrections

Means of validation	Not applicable
Findings	-
Conclusion	Not applicable

D.4. Changes to the start date of the crediting period

Means of validation	Not applicable
Findings	-
Conclusion	Not applicable

D.5. Inclusion of a monitoring plan

Means of validation	Not applicable
Findings	-
Conclusion	Not applicable

D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools

Means of validation	As per the registered GS Passport, the monitoring of Indicator 1 – <u>Air Quality</u> – of the Sustainability Monitoring Plan was supposed to be done by Ringelmann smoke charts. Nevertheless, the <u>Air Quality</u> is being monitored by a more complex and efficient method for the monitoring of atmospheric emissions, with specific equipment (gas measurement equipment) for this task and with the issuance of an atmospheric emissions report. This monitoring is a more trustable and traceable method and it is a requirement of the local environmental agency (CPRH) to issue the operation license of the ceramic.
Findings	CAR 08
Conclusion	The change was necessary in order to accomplish with local environmental agency requirements. The new monitoring is more trustable and complete. In addition, as the change has no material impact on the applicability of the applied methodology or the accuracy and completeness of the monitoring, it does not need prior approval, in accordance with the Appendix of CDM PS for Project Activity – version 01.0.

D.7. Changes to the project design

Means of validation	Not applicable
Findings	-
Conclusion	Not applicable

D.8. Changes specific to afforestation and reforestation project activities

Means of validation	Not applicable
Findings	-
Conclusion	Not applicable

SECTION E. Internal quality control

A draft validation report prepared by assessment team is reviewed by an independent Technical Review team (one or more members) to confirm if the internal procedures established and implemented by ESPL were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable Gold Standard and CDM requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team are independent of the validation team. The report approved by Quality Manager is endorsed by Managing Director, who is overall responsible to ensure quality, before final release. The further details of applicable procedures and responsibilities about Earthood Quality Management System (QMS) are available on its website (www.earthood.in).

SECTION F. Validation opinion

The change refers to a permanent change from registered monitoring plan of SD indicator – Air Quality.

The change was a requirement of the local environmental agency (CPRH) to issue the operation license of the ceramic and provides a much better and robust monitoring of the indicator.

In addition, it does not need prior approval as it has no material impact on the applicability of the applied methodology or the accuracy and completeness of the monitoring, in accordance with the Appendix of CDM PS for Project Activity – version 01.0.

Therefore, ESPL confirms that the change is in accordance with GS directives.

Appendix 1. Abbreviations

Abbreviations	Full texts
ACM	Approved Consolidated Methodology
BE	Baseline Emission
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CP	Crediting Period
CPRH	Environmental Agency of the State of Pernambuco
DNA	Designated National Authority
DNPM	National Department of Mineral Production
DOE	Designated Operational Entity
DOF	Document of Forest Origin
ESPL	Earthood Services Private Limited
FAR	Forward Action Request
GHG	Greenhouse Gas
GS	Gold Standard Foundation
GSC/GSP	Global Stakeholder Consultation Process
IPE	Individual Protective Equipment
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
kW	kilo Watt
kWh	kilo Watt hour
MoC	Modalities of Communication
MoV	Means of Validation
MP	Monitoring Plan
MW	Mega Watt
MWh	Mega Watt hour
PA	Project Activity
PCP	Project Cycle Procedure
PE	Project Emission
PP	Project Participant
PS	Project Standard
SD	Sustainable Development
SDM	Sustainable Development Matrix
SENAI	National Industry Service
tCO ₂ e	Tonnes of Carbon di oxide equivalent
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Verified Carbon Standard
VCS-PD	Project Design Document
VT	Verification Team
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers

Competence Statement	
Name	Sergio Bonanno Cruz
Country	Brazil

Education	Post Graduate Diploma in Environment		
Experience	21 Years		
Field	Environmental Law, CDM, Energy, Climate Change		
Approved Roles			
Team Leader	Yes		
Validator	Yes		
Verifier	Yes		
Methodology Expert	Yes (ACM0001, ACM0002, AM0026, ACM0006, AMS ID)		
Local expert	Brazil		
Financial Expert	No		
Technical Reviewer	Yes		
TA Expert	Yes (TA 1.2, 13.1)		
Reviewed by	Abhishek Mahawar	Date	16/08/2017
Approved by	Ashok Kumar Gautam	Date	16/08/2017

Competence Statement			
Name	Marcelo Sebben		
Country	Brazil		
Education	M.Sc. (Sustainable Energy System) B. Eng. (Chemical Engineering)		
Experience	11 Years		
Field	Chemical process industry, CDM, Energy, Climate Change		
Approved Roles			
Team Leader	Yes		
Validator	Yes		
Verifier	Yes		
Methodology Expert	Yes (ACM0001, ACM0002, ACM0006, AM0065, AMS ID)		
Local expert	Brazil		
Financial Expert	No		
Technical Reviewer	Yes		
TA Expert	Yes (TA 1.1, 1.2, 5.1, 13.1)		
Reviewed by	Abhishek Mahawar	Date	16/08/2017
Approved by	Ashok Kumar Gautam	Date	16/08/2017

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	UNFCCC	Standard: CDM PS for Project Activity	version 01.0	Other
2.	UNFCCC	Standard: CDM PCP for Project Activity	version 01.0	Other
3.	UNFCCC	Standard: CDM VVS for Project Activity	version 01.0	Other
4.	UNFCCC	Form: CDM-MR-FORM	version 6.0	Other

5.	PP	Monitoring Report (draft)	version 01 – 20/09/2017	PP
6.	PP	Monitoring Report (revised)	version 02 – 11/10/2017	PP
7.	PP	Monitoring Report (final)	version 03 – 13/11/2017	PP
7.	PP	ER Spreadsheet (draft)	version 1	PP
9.	PP	ER Spreadsheet (revised)	version 2	PP
10.	PP	ER Spreadsheet (final)	version 3	PP
11.	PP	Registered VCS-PD	version 8 – 23/04/2010	PP
12.	PP	Registered Gap Analysis Report	version 1.2 – 23/04/2013	Other
13.	PP	Registered GS Passport	version 01.1 – 24/04/2013	
14.	UNFCCC	Methodology: AMS-I.E – Switch from Non-Renewable Biomass for Thermal Applications by the User	version 5.0	Other
15.	PP	<u>Biomass:</u> DOFs	2012 / 2013 / 2014 / 2015 / 2016 / 2017	PP
		Purchase invoices	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
		Sales invoices	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
		Excel files with annual control of purchase of biomass by type and ceramic	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
16.	CPRH	<u>License:</u> Operation license # 03.15.06.003208-4	22/06/2015 – valid until 21/06/2017	PP
17.	DNPM	<u>Clay Extraction:</u> - Authorization # 174/2009	07/05/2013 – valid until 03/01/2023	PP
	CPRH	- Operation license # 05.16.05.002319-2	01/06/2016 – valid until 01/06/2019	PP
18.	PP	<u>Leakage:</u> - Study “Renewable Biomass Surplus in the State of Ceará, Brazil” – version 02	November/2012	PP
19.	PP	<u>Production:</u> - Handwritten report of daily production of ceramic devices	2012 / 2013 / 2014 / 2015 / 2016 / 2017	PP
		- Excel files with annual control of production by kiln	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
20.	PP	<u>SD Indicators:</u> - Record of use of ashes	2012 / 2013 / 2014 / 2015 / 2016 / 2017	PP
	PP	- Record of distribution of IPEs	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
	Dr. Iraldo Guerra	- Occupational Health and Medical Control Program	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
	PP	- Environmental Risk Prevention Program	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
	SENAI	- Atmospheric emissions report	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
	Geração Vapor SETEC	- Monitoring Report of Pollutant Gases Emissions	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
	PP	- Partial payment of professional courses for employees	2012 / 2013 / 2014 / 2015 / 2016 / 2017	
	PP	- Record of payment of bonus to the employees due to production	2012 / 2013 / 2014 / 2015 / 2016 / 2017	

21.	-	Brazilian Institute for the Environment	http://www.ibama.gov.br/	Other
22.	-	The Gold Standard Foundation	http://www.goldstandard.org/	Other
23.	-	The Gold Standard Energy Toolkit – version 2.2	http://www.goldstandard.org/sites/default/files/gsv2.2_toolkit.pdf	Other
24.	-	IPCC publications	www.ipcc-nggip.iges.or.jp	Other
25.	-	Environmental Agency of the State of Pernambuco (CPRH)	www.cprh.pe.gov.br/	Other
26.	-	UNFCCC	http://cdm.unfccc.int	Other
27.	-	VCS	http://www.v-c-s.org/	Other

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CL from this validation

CL ID	-	Section no.	-	Date: -
Description of CL				
-				
Project participant response				Date: -
-				
Documentation provided by project participant				
-				
DOE assessment				Date: -
-				

Table 2. CAR from this validation

CAR ID	08	Section no.	E.6.3	Date : 27/09/2017
Description of CAR				
<p><i>The SD Indicators presented at Annex 1 of the MR are not in accordance with the ones of the registered GS Passport.</i></p> <p><i>In addition:</i></p> <ul style="list-style-type: none"> <i>a. Indicator # 01: explain the monitoring of the indicator, as it is not being performed as per the monitoring plan;</i> <i>b. Indicator # 02: explain the control of disposal of ashes and their destination;</i> <i>c. Indicator # 03: not all safety practices evidenced during the site visit have been reported;</i> <i>d. Indicator # 05: it is not clear if there is or there is not increase in the income of biomass suppliers resulted from the project activity.</i> 				
Project participant response				Date : 11/10/2017
<p><i>The SD indicators presented at Annex 1 of the MR were corrected and are in accordance with the ones of registered in GS Passport Version 05.</i></p> <p><i>In addition: All indicators were corrected and are presented in Version 02 of the MR.</i></p> <p><i>Indicator # 01: The monitoring of the indicator was better than stipulated in Passport Version 05.0 because presents real number about atmospheric emissions. During the Validation of this project, the ceramic factory did not have specific procedures to control and monitor atmospheric emissions, the Ringelmann smoke charts was chosen to be the parameter. After validation, the Buenos Aires Ceramic made an Inventory of atmospheric emissions. This document presents more information that Ringelmann smoke charts.</i></p> <p><i>Indicator # 02: All the ashes are used to fertilize the eucalyptus plantation.</i></p> <p><i>Indicator # 03: All safety practices evidenced during the site visit have been reported.</i></p> <p><i>Indicator # 05: There is an increase in the income of biomass suppliers resulted from the project activity.</i></p>				
Documentation provided by project participant				
MR – version 02				
DOE assessment				Date: 18/10/2017

The SD Indicators are in accordance with the latest version of the GS Passport, which has been validated during the validation process.
 All indicators were revised and now are in accordance with evidences and scenarios checked during the site visit.
 In addition, the monitoring of Indicator #1 is now better performed and in accordance with environmental requirements of the local authority. Nevertheless, as it is being performed differently than planned during the validation process, this new monitoring has been described as a permanent change from registered monitoring plan and discussed at Section E.4.5 above of this Report. In addition, as the change has no material impact on the applicability of the applied methodology or the accuracy and completeness of the monitoring, it does not require prior approval.

Table 3. FAR from this validation

FAR ID	-	Section no.		Date: -
Description of FAR				
-				
Project participant response				Date: -
-				
Documentation provided by project participant				
-				
DOE assessment				Date: -
-				

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	31 October 2017	Revision to align with the requirements in the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.

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