

## CDM-PRCV-FORM



**Validation report form for post-registration changes for  
CDM project activities  
(Version 03.0)**


*Complete this form in accordance with the instructions attached at the end of this form.*

**BASIC INFORMATION**

<b>Title and UNFCCC reference number of the project activity</b>	Uganda Nile Basin Reforestation Project No. 3 UNFCCC Ref. 1578
<b>Process track</b>	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
<b>Version number of the validation report</b>	2.0Aa
<b>Completion date of the validation report</b>	28/07/2020
<b>Type(s) of PRCs</b>	<input checked="" type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <sup>1</sup> <input checked="" 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 methodological regulatory documents <input type="checkbox"/> Changes to the project design <input checked="" type="checkbox"/> Changes specific to afforestation and reforestation project activities
<b>Version number of PDD to which this report applies</b>	08
<b>Project participants</b>	<p><b>Uganda:</b> National Forest Authority (NFA).</p> <p><b>Spain:</b> Kingdom of Spain - Ministry for the Ecological Transition &amp; Ministry of Economy and Business</p> <p><b>Japan:</b> Japan Iron and Steel Federation (JISF) ; Idemitsu Kosan Co., Ltd. ; The Okinawa Electric Power Co., Inc ; Suntory Holdings Limited ; Tokyo Electric Power Company Holdings, Inc. ; Sumitomo Joint Electric Power Co., Ltd. ; Japan Petroleum Exploration Co., Ltd. (JAPEX) ; Sumitomo Chemical.</p> <p><b>Italy:</b> Government of Italy - Ministry for the Environment Land and Sea; International Bank for Reconstruction and Development (IBRD) as Trustee of the BioCarbon Fund (BioCF).</p>

<sup>1</sup> Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

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	<b>France:</b> Eco-Carbone S.A.S. <b>Luxembourg:</b> Ministry of the Environment, Climate and Sustainable Development
<b>Host Party</b>	Uganda
<b>Applied methodologies and standardized baselines</b>	AR-AMS0001 Simplified baseline and monitoring methodologies for small-scale afforestation and reforestation project activities under the clean development mechanism implemented on grassland or croplands – version 5 of 09/2008.
<b>Mandatory sectoral scopes</b>	14 Afforestation and reforestation
<b>Conditional sectoral scopes, if applicable</b>	NA
<b>Name and UNFCCC reference number of the DOE</b>	RINA SERVICES SPA E-0037
<b>Name, position and signature of the approver of the validation report</b>	Laura SEVERINO Head of Certification Innovation & Sustainability 

**CDM-PRCV-FORM****SECTION A. Executive summary****Purpose and general description of the project activity.**

The project activity is implemented within the Rwoho Central Forest Reserve in which pine forest plantations (*Pinus caribaea*) are being established and it is one of the five similar projects for establishing timber plantations in Uganda. The project is implemented by the National Forest Authority (NFA) in cooperation with the local community group Kanywamaizi Development Association (KADA) covering 341.9 ha divided in 14 blocks of an average of 25 ha each and managing a 22-year rotation cycle (rotation age for timber production). The forest management (nursery technology, planting, tending and harvesting regimes) is based on the Tree Planting Guideline developed by the Sawlog Production Grant Scheme /4/.

**Scope of validation**

This report summarizes the findings of the validation of post registration changes, on the basis of UNFCCC criteria for CDM. The scope of validation is to determine:

- that the actual post-registration changes to the registered CDM project activity comply with the relevant CDM rules and requirements;
- that the revised PDD reflects the post-registration changes.

Validation shall ensure that:

- the compliance of the revised PDD with the valid version of the applicable form and instructions therein applicable at the time of validation;
- the information transferred to the later valid version of the PDD is materially the same as that in the registered PDD;
- the requirements relevant to the actual post registration changes in § 8.2 – 8.4 of the CDM VVS.

**Validation process**

Validation is conducted using RINA procedures in line with the requirements specified in the CDM VVS, latest version available, relevant decisions of the CDM EB and applying standard auditing techniques. The validation assessment involved a document review of relevant documentation and on-site visit. Verification is not meant to provide any consultancy towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement.

**Conclusion**

The World Bank has commissioned RINA to carry out the verification and certification of GHG removals by sink reported for the registered project activity “*Uganda Nile Basin Reforestation Project No. 3*” in Uganda, UNFCCC reference 1578, for the monitoring period 06/04/2012 to 31/12/2017. The project was validated by JACO CDM Ltd (validation report No. GR07W0002D-5 rev. 06 of 11/08/2009) /5/ and it was registered on 21/08/2009. During the monitoring period some changes occurred to the implementation of the registered CDM project activity and have been documented and assessed during the verification activity.

In conclusion, it is RINA’s opinion that the project activity “*Uganda Nile Basin Reforestation Project No. 3*” as described in the revised PDD version 08 of 06/07/2020, meets all relevant requirements for CDM activities and post registration changes. Hence RINA is able to validate the post registration changes as described in the following sections.

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**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/document review	On-site inspection	Interviews	Validation findings
1.	Team Leader	IR	VALOROSO	Rita	RINA Central Office	√	√	√	√
	Verifier								
	Regional Expert								
2.	Technical Expert	IR	MASO	Daria	RINA Central Office	√	√	√	√

**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	Menon	Rekha	RINA India PVT LTD
2.	Technical reviewer	IR	Amalorpavanthan	Cyril Augustus Arokiasamy	RINA India PVT LTD
3.	Approver	IR	Severino	Laura	RINA HQ

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

The monitoring report version 03 of 21/07/2020 and previous versions /1/, the GHG removals by sink calculation provided in the form of a spreadsheet (UNBRP\_Carbon calculation\_Project3\_20200716.xlsx) /2/, were assessed as part of the verification. In addition the PDD /4/, in particular the baseline estimations and the monitoring plan were reviewed. The monitoring report version 01 was made publicly available at the CDM UNFCCC website on 09/08/2018 (<http://cdm.unfccc.int/Issuance/MonitoringReports>). Appendix 3 of this report lists all documents reviewed during the verification including CDM regulatory documents.

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## C.2. On-site inspection

Duration of on-site inspection: 18/09/2018 to 26/09/2018*				
No.	Activity performed on-site	Site location	Date	Team member
1.	Introduction about the project, history and background of the project, operational and management structure, project starting date and start of crediting period.	Mbarara	18/09/2018	Rita VALOROSO Daria MASO
2.	Actual implementation and operation of the project activity: field measurements and interview with representative of KADA community. Cross-check between field measurement and calculation spreadsheet	Rwoho Central Forest Reserve Mbarara	20/09/2018	Rita VALOROSO Daria MASO
3.	QA/QC procedures, records and data storage. Measuring instruments. ERs calculation	Mbarara	25/09/2018	Rita VALOROSO Daria MASO
4.	Closing meeting and communication of the assessment findings.	Mbarara	26/09/2018	Rita VALOROSO Daria MASO
5.	Meeting at NFA	Kampala	26/09/2018	Rita VALOROSO Daria MASO

\*On-site inspection in conjunction with projects UNFCCC Ref. 4466, 4941, 4940, 4439.

## C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	GASANA	George	NFA	18/09/2018 to 26/09/2018	History and background of the project.	Rita VALOROSO Daria MASO
2.	RUBONG OYA	Rogers	NFA		Operational and management structure.	
3.	KYALIAGO NZA	Herbert	NFA		Actual implementation and operation of the project activity.	
4.	MBABAZI	Geoffrey	NFA		Field measurements.	
5.	ARINEITWE	Innocent	NFA		Records and storage data.	
6.	MUGUMYA	Xavier	THE WORLD BANK		ER calculation	
7.	SYIEM	Evanshainia	THE WORLD BANK			
8.	Representatives of local community group KADA			20/09/2018	Positive/negative impacts due to the implementation of the project.  Role of the local community group.	

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**C.4. Sampling approach**

For validation of post registration changes is not applied sampling approach.

**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, applied methodologies, standardized baselines or other methodological regulatory documents	/	/	/
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 methodological regulatory documents	/	/	/
Changes to the project design	/	/	/
Changes specific to afforestation and reforestation project activities	/	/	/
Others (please specify)	/	/	/
<b>Total</b>	/	/	/

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

<b>Means of validation</b>	Comparig the revised PDD /4/ with the PDD form provided by CDM EB listed in the UNFCCC website.	
<b>Findings</b>	/	
<b>Conclusion</b>	The revised PDD version 08 of 06/07/2020 submitted for validation is in compliance with the laest PDD form (version available at UNFCCC website) and with the instruction for completing the form therein. It is also confirmed that the information transferred to PDD version 08 is materially the same as that in the registered PDD.	

**D.2. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents**

<b>Means of validation</b>	<b>Sampling.</b> The PP chose to apply the provisions relating to uncertainty contained the methodological tool "Estimation of carbon stocks and change in carbon stocks of trees and shrubs in A/R CDM project activities", in lieu of uncertainty-related requirements applicable in accordance with the clarification provided by EB /50/. During the actual monitoring period the uncertainty accounts to 16% /2/, meaning that 10% of margin of error at 90% of confidence level is not achieved; therefore the uncertainty discount factor of 50% /3/ is applied as per the Appendix 2 of the methodological tool /51/. The deviation from the registered/revised monitoring plan is applied to the whole monitoring period under verification
<b>Findings</b>	/
<b>Conclusion</b>	RINA confirms that the deviation complies with the relevant requirements related to the temporary deviation from the registered monitoring plan in the CDM PS /23/.

**D.3. Corrections**

<b>Means of validation</b>	<b>BEF (Biomass expansion factor).</b> The revised PDD is corrected providing the right value of 1.30 for Pine in line with the data sourced from IPCC LULUCF /48/.
	<b>Survival monitoring.</b> Since the applied methodology /20/ does not expect the monitoring of tree survival, PDD version 08 /4/ is updated removing Step 1 from section D.8, related to the requirements for the monitoring survival which are

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	applicable to forestry operations and not the monitoring of the actual GHG removal.
<b>Findings</b>	/
<b>Conclusion</b>	RINA confirms that the above corrections are documented in the revised PDD version 08 /4/. The corrections do not affect the design of the project activity and therefore a request for approval is suitable to be submitted under the issuance track according Appendix of CDM project standard /23/.

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

<b>Means of validation</b>	NA
<b>Findings</b>	
<b>Conclusion</b>	

## D.5. Inclusion of a monitoring plan

<b>Means of validation</b>	NA
<b>Findings</b>	
<b>Conclusion</b>	

## D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

<b>Means of validation</b>	<b>Monitoring of data and parameters.</b> According the guidelines on application of specified versions of A/R methodologies /47/ monitoring is not required for data, parameters, or variables appearing as intermediate values in calculation steps. Therefore, the "Total CO <sub>2</sub> " and "Basic wood density" are not reported as monitored parameters. PDD version 08 is updated accordingly /4/. The permanent change to the monitoring have no material impact on the applicability of the applied methodology and methodological tools.
<b>Findings</b>	/
<b>Conclusion</b>	The request for approval is suitable to be submitted under the issuance track according Appendix of CDM project standard /23/.

## D.7. Changes to the project design

<b>Means of validation</b>	NA
<b>Findings</b>	
<b>Conclusion</b>	

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

<b>Means of validation</b>	<p><b>Species.</b> Pinus caribea is replaced with Pinus oocarpa because of no seedlings availability. Both species belongs to Pinus family and technically do not have differences. PDD version 08 /4/ is updated accordingly.</p> <p><b>Planting schedule.</b> Paragraph A.6 of the PDD /4/ now states that "The project area will be planted from 2007 to 2021." and MR in paragraph B.1 states "Tree planting began in April 2007. [...] This deficit, excluding unproductive areas, is planned to be planted between 2018 and 2021" /1/. The area that is available to be planted is the total area (minus 10% of area considered to be covered by unproductive areas such as roads, natural forest, rocks) minus the area planted in the period 2006-2011 according to the plantation delineation report /44/ and minus the area estimated to be planted in 2012-2017 according to the forest management system.". A revised Plantation schedule /40/ based on the plantation delineation report /44/ is provided.</p> <p><b>Change to QA/QC procedures.</b> The PDD version 08 of 06/07/2020 is updated fixing the thresholds for DBH (<math>&lt; \pm 1.0</math> cm or 8% whichever is greater) and height (<math>&lt; \pm 15</math> % or <math>\pm 1</math> meter whichever is greater), and removing the procedure for uncertainty assessment.. The quality assurance/quality control procedure is changed and it is demonstrated that it is more conservative than the procedure used in another A/R CDM project activity (UNFCCC ref. No. 2694), that does not</p>
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	<p>contain provisions for uncertainty assessment. Moreover according paragraph 3b of the : “Guidelines on application of specified versions of AR CDM methodologies in verification of registered AR CDM project activities” (Version 1.1) /47/, <i>Accounting for uncertainty: Requirements related to “uncertainty assessment”, “uncertainty analysis”, “methods of combining uncertainties”, and “uncertainty in expert judgement” are superfluous and compliance with these requirements shall not enforced</i>”, which justifies the removal of the uncertainty assessment.</p> <p><b>Plot size.</b> The plot size has been changed from rectangular sample plots of 400 m<sup>2</sup> to circular plots of 12 md radius, therefore plots are of 452.389 m<sup>2</sup>. The change is applied in the forestry inventory for the actual monitoring period.</p> <p><b>Sampling. (targeted precision, permanent sampling plots and stratification).</b> The PDD version 08 of 06/07/2020 has been updated to consider:</p> <ul style="list-style-type: none"> <li>(a) a targeted precision level of <math>\pm 10\%</math> of the mean at a 90% confidence level which is allowed as per the guideline on application of specified versions of A/R CDM methodologies in verification of registered A/R CDM project activities /47/.</li> <li>(b) the use of temporary sampling plots instead of temporary sampling plots which is allowed by guideline on application of specified versions of A/R CDM methodologies in verification of registered A/R CDM project activities /47/ and by the Guidelines on accounting specified types of changes in A/R CDM project activities from the description in registered PDD, the change is considered minor and it does not need prior approval from EB /21/.</li> <li>(c) stratification defined at each monitoring event based on parameters that explain the variation of carbon stocks. For this monitoring event, stratification has been based on the planting year which is acceptable. The stratification criteria provided in the updated PDD will be considering the panting years instead of species. Change in stratification are considered minor as per the Guidelines on accounting specified types of changes in A/R CDM project activities from the description in registered PDD, the change is considered minor and it does not need prior approval from EB /21/</li> </ul>
<b>Findings</b>	/
<b>Conclusion</b>	According to the Guidelines on accounting specified types of changes in A/R CDM project activities from the description in registered PDD /21/, the changes mentioned above are considered minor and it does not need prior approval from EB.

**SECTION E. Internal quality control**

The draft final validation report before being submitted to the client will be subjected to an independent internal technical review to confirm that all the verification activities had been completed according to the pertinent RINA instructions.

The technical review is performed by a technical reviewer qualified in accordance with RINA's qualification scheme for CDM validation and verification.

**SECTION F. Validation opinion**

RINA Services Spa (RINA) has performed validation of the post registration changes reported for the project activity “Uganda Nile Basin Reforestation Project No. 3” in Uganda, UNFCCC reference 1578, for the monitoring period 06/04/2012 – 31/12/2017, with regard to the relevant requirements for CDM activities.

It is RINA's opinion:

- That the actual post-registration changes to the registered CDM project activity comply with the relevant CDM rules and requirements;
- That the revised PDD reflects the post-registration changes.

Due the nature of the post registration changes, it is confirmed that the actual post-registration changes are suitable for approval under the issuance track.



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## Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
BEF	Biomass expansion factor
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CDM PCP	Clean Development Mechanism Project Cycle Procedure
CDM PS	Clean Development Mechanism Project Standard
CDM VVS	Clean Development Mechanism Validation and Verification Standard
CER(s)	Certified Emission Reduction(s)
CL	Clarification Request
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
DBH	Diameter at breast height
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
ERs	Emission Reduction(s)
FAR	Forward Action Request
GHG	Greenhouse Gas
GIS	Geographic Information System
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
MR	Monitoring Report
NA	Not Applicable
NFA	National Forest Authority
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
PSP	Permanent Sample Plot
QA/QC	Quality Assurance/Quality Control
RINA	RINA Services S.p.A.
SS	Sectoral Scope
TA	Technical Area
TBD	To Be Defined
UNFCCC	United Nations Framework Convention on Climate Chang
KADA	Kanywamaizi Development Association

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## Appendix 2. Competence of team members and technical reviewers



### CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:  
We declare that Mr/Mrs/Ms:

Rita VALOROSO

è qualificato come:  
Is qualified as:

CDM -TEC, -VAL, -VER, -TL  
TECHNICAL REVIEWER, REG-EXP<sup>2</sup>

per le seguenti aree tecniche:  
for the following technical areas:

1.2, 3.1, 13.1, 14.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
3.1	Energy demand	3
13.1	Solid Waste and waste water	13
14.1	Afforestation and reforestation	14

In accordo alle istruzioni dell'Unità Certification Innovation & Sustainability.  
In accordance with the instructions of the Unit Certification Innovation & Sustainability.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	18-01-2010	-
13	14-11-2019	Update qualification with "Sampling and surveys for CDM PAs and PoAs"

Il Resp. CEINS  
Head of CEINS

#### <sup>1</sup> Legend:

VAL: Validator  
VER: Verifier  
TEC: Technical Expert  
TL: Team Leader  
FIN-EXP: Financial Expert  
DET: Determiner

CDM: Clean Development Mechanism  
VCS: Verified Carbon Standard  
GS: Gold Standard  
SCS: SocialCarbon Standard  
JI: Joint Implementation

<sup>2</sup> Iran, Pakistan, Qatar, Cameroon, Congo, Ethiopia, Ghana, Madagascar, Mozambique, Niger, Nigeria, Tunisia, Uganda, South Africa, Egypt, Saudi Arabia, Bosnia-Herzegovina, Georgia, Macedonia.

RINA Services S.p.A. è accreditata da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS.

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports.

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**CERTIFICATO DI QUALIFICA**  
**QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:  
*We declare that Mr/Mrs/Ms:*

**Daria MASO**

è qualificato come<sup>1</sup>:  
*is qualified as:*

**TEC**

per le seguenti aree tecniche:  
*for the following technical areas:*

**14.1, 15.1**

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
14.1	Afforestation and reforestation	14
15.1	Agriculture	15

in accordo alle istruzioni dell'unità Certificazione, Innovazione e Sostenibilità.  
*in accordance with the instructions of the Certification, Innovation & Sustainability Unit.*

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	29/09/2017	First Issue
1	22/01/2020	Update qualification in TA 15.1

Il Resp. CEINS  
*Head of CEINS*

<sup>1</sup> Legend:

VAL: Validator  
VER: Verifier  
TEC: Technical Expert  
TL: Team Leader  
FIN-EXP: Financial Expert  
DET: Determiner

CDM: Clean Development Mechanism  
VCS: Verified Carbon Standard  
GS4GG: Gold Standard For Global Goals  
SCS: SocialCarbon Standard  
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**CERTIFICATO DI QUALIFICA**  
**QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:  
We declare that Mr/Mrs/Ms:

**Rekha MENON**

è qualificato come<sup>1</sup>:  
is qualified as:

**CDM-TEC, -VAL, -VER, -TL  
ITRP, REG-EXP<sup>2</sup>**

per le seguenti aree tecniche:  
for the following technical areas:

**1.2, 2.1, 13.1, 13.2, 14.1**

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1
2.1	Electricity Distribution	2
13.1	Solid Waste and wastewater	13
13.2	Manure	13
14.1	Afforestation and reforestation	14

In accordo alle istruzioni dell'Unità Certification Innovation & Sustainability.  
In accordance with the instructions of the Certification Innovation & Sustainability Unit.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	06-03-2008	-
13	14-11-2019	Update qualification with "Sampling and surveys for CDM PAs and PoAs"

Il Resp. CEINS  
Head of CEINS

<sup>1</sup> Legend:

VAL: Validator  
VER: Verifier  
TEC: Technical Expert  
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DET: Determiner

CDM: Clean Development Mechanism  
VCS: Verified Carbon Standard  
GS: Gold Standard  
SCS: SocialCarbon Standard  
JI: Joint Implementation

<sup>2</sup> India, Indonesia, Malaysia, Myanmar, Vietnam, Cambodia, Laos, Sri Lanka, Nepal, China, Philippines, Thailand, Iran, Congo

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologic Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologic Institute, to carry out Validation and Verification of SCS Reports

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## CDM-PRCV-FORM


**CERTIFICATO DI QUALIFICA**  
**QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:

Amalorpavanathan Cyril AUGUSTUS AROKIASAMY

We declare that Mr/Mrs/Ms:

 e qualificato come<sup>1</sup>:  
 is qualified as:

 CDM-TEC, CDM-VAL, CDM-VER, CDM-TL,  
 ITRP, REG-EXP<sup>2</sup>

 per le seguenti aree tecniche:  
 for the following technical areas:

1.1, 1.2, 3.1, 5.1, 13.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
3.1	Energy Demand	3
5.1	Chemical industry	5
13.1	Solid Waste and wastewater	13

in accordo alle istruzioni della Unità Certification Innovation and Sustainability.

in accordance with the instructions of the Certification Innovation and Sustainability Unit.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	30/06/2010	-
13	31/03/2017	Updated qualification as ITRP
14	20/09/2018	Update qualification as REG-EXP
15	15/11/2019	Update qualification with "Sampling and surveys for CDM PAs and PoAs"

 Il Resp. CEINS  
 Head of CEINS


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 FIN-EXP: Financial Expert  
 DET: Determiner

 CDM: Clean Development Mechanism  
 VCS: Verified Carbon Standard  
 GS: Gold Standard  
 SCS: Social/Carbon Standard  
 JI: Joint Implementation

<sup>2</sup> Ghana, Azerbaijan, China, Sri Lanka, Bangladesh, Nepal, Thailand, Indonesia, Singapore, Malaysia, Cambodia, Vietnam, Philippines, UAE and Iraq, Brazil, Japan.

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS.

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## Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	NFA	Monitoring Report of Uganda Nile Basin Reforestation Project No. 3	Version 01 of 30/05/2018 Version 02 of 21/05/2020 Version 03 of 21/07/2020	PP
2	NFA	Leakage survey calculation 1578 Uganda Nile Basin Reforestation Project No. 3_leakage_survey_calculations.xlsx	Version of 31/03/2018 Version of 13/01/2020	PP
3	NFA	Emission reductions calculation spreadsheet UNBRP_SMART_Tool_Project 3.xlsx  UNBRP_Carbon calculation_Project3_20191030.xlsx UNBRP_Carbon calculation_Project3_20200716.xlsx	Version of 18/07/2018   Version of 13/01/2020 Version of 16/07/2020	PP
4	NFA	Project Design Document of Uganda Nile Basin Reforestation Project No. 3	Version 06-1 of 16/01/2009 Version 07 of 10/12/2019 Version 08 del 06/07/2020	Other
5	JACO CDM LTD	Small-scale A/R Validation Report No. GR07W0002D-06	Version 06 of 11/08/2009	Other
6	TUV SUD South Asia Pvt Ltd	Certification Report with Post Registration changes validation opinion. 1 <sup>st</sup> monitoring period (01/04/2007 to 05/04/2012) No. 600501047	Version 03 of 06/05/2013	Other
7	NFA	Field Carbon Inventory and Monitoring Manual	Version 3 of 08/2019	PP
8	NFA	Carbon Revenue Distribution and Budgeting Procedure	/	PP
9	NFA	CDM Operations Plan	/	PP
10	NFA	CDM Monitoring Process - Standard Operating Procedures	November 2011 October 2019	PP
11	NFA	CDM Monitoring Process – Data analysis and reporting manual.	November 2011	PP
12	NFA	Forest Management Plan for Bugamba and Rwoho Central Forest Reserves for the period 2006-2026	2006	PP
13	NFA	Fire Report No. 08	21/08/2016	PP
14	NFA	Fire Report	15/02/2013	PP
15	NFA	Fire Report	19/07/2018	PP
16	NFA	Fire Report	22/12/2017	PP

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17	NFA	Collaborative Forest Management between NFA and KADA	18/01/2012	PP
18	NFA	Annual operating plan and expenditure budget estimates for 2018-2019 Mbarara plantations	/	PP
19	NFA	Fire Management Plan Mbarara Plantations	Jan-Feb 2016	PP
20	CDM Executive Board	Simplified baseline and monitoring methodologies for small-scale afforestation and reforestation project activities under the clean development mechanism implemented on grasslands or croplands – AR-AMS0001	Version 05 September 2008	Other
21	CDM Executive Board	Guidelines on accounting of specified types of changes in A/R CDM project activities from the description in registered project design documents.	EB63 Annex 27 Version 01.0 of 29/09/2011	Other
22	CDM Executive Board	Monitoring report form for CDM project activity (CDM-MR-FORM)	Version 06.0 of 07/06/2017	Other
23	CDM Executive Board	CDM project standard for project activities	Version 02.0 of 29/11/2018 (latest version available)	Other
24	CDM Executive Board	Sampling and surveys for CDM project activities and programme of activities.	Version 07.0 of 13/09/2012	Other
25	CDM Executive Board	CDM validation and verification standard for project activities.	Version 02.0 of 29/11/2018 (latest version available)	Other
26	Web site	Sample size calculator <a href="http://www.calculator.net/sample-size-calculator.html">http://www.calculator.net/sample-size-calculator.html</a>	English language	Other
27	FAO Forestry Department	National forest inventory - Field manual template Working Paper 94/E	2004	Other
28	CDM Executive Board	CDM Project cycle procedure for project activities.	Version 02.0 of 29/11/2018 (latest version available)	Other
29	NFA	Mbarara Plantation Report	11/01/2016	PP
30	Uganda Forest Resources Management and Conservation Programme	Yields of Eucaliptus and Caribbean Pine in Uganda	06/05/2003	PP
31	NFA	Annual operating plan and expenditure budget estimates for 2016-2017 Mbarara plantations	/	PP
32	NFA	Annual operating plan and expenditure budget estimates for 2017-2018 Mbarara plantations	/	PP
33	NFA	Form factor calculation Pinus <i>Oocarpa</i> Calcul_coef_forme_Pinus_oocarpa.xlsx	13/01/2020	PP
34	Norman Erik Estrada Càmbar	Elaboration of general volume tables for Pinus <i>Oocarpa</i>	06/1997	PP
35	Javier Eduardo Valencia Canales	Volumetric system for Pinus <i>Oocarpa</i>	04/2013	PP
36	Ernesto Crechi	Taper equation development to	2008	PP



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		estimation different volumes for Pinus.		
37	Forest Department, Ministry of Water Lands and Environment	National Biomass Study - Technical Report	21/09/2002	PP
38	/	Local data for wood density	1992	PP
39	NFA	Mbarara plantation situation report	14/10/2017	PP
40	NFA	Rwoho revised plantation schedule Rwoho_Revised Plantation schedule.xlsx	13/01/2020	PP
41	UNIQUE forestry and land use	Technical Support to Uganda's National Forestry Authority for the 2 <sup>nd</sup> CDM Verification of the Uganda Nile Basin Reforestation Projects	01/11/2017	PP
42	UNIQUE forestry and land use	Technical review of performance and CDM verification preparedness of the Uganda Nile Basin Reforestation Projects	20/03/2017	Pp
43	NFA	Uganda Inventory QA analysis Uganda_Inventory_QAanalysis_Rev01.xlsx	Rev.01 of 13/01/2020	PP
44	NFA	Uganda Plantation Delineation Report	20/10/2019	PP
45	NFA	Planted area map Planted Area MR.kml	27/03/2020	PP
46	NFA	Project boundary registration Project Boundary registration.kml	27/03/2020	PP
47	CDM Executive Board	Guideline on application of specified versions of A/R CDM methodologies in verification of registered A/R CDM project activities.	Version 01.1 of 20/07/2012	Other
48	IPCC	2003 IPCC Guidelines for National Greenhouse Gas Inventories Volume 4 – AFOLU <a href="https://www.ipcc-nggip.iges.or.jp/public/2006gl/vol4.html">https://www.ipcc-nggip.iges.or.jp/public/2006gl/vol4.html</a>	/	Other
49	UNIQUE forestry and land use	CDM Verification preparatory technical workshops	28/08/2017	PP
50	CDM Executive Board	AR_AM_CLA_0019 General guidance on cases where uncertainty in estimation of carbon stocks exceeds allowable maximum uncertainty	21/03/2013	Other
51	CDM Executive Board	Methodological tool tool "Estimation of carbon stocks and change in carbon stocks of trees and shrubs in A/R CDM project activities"	Version 04.2 of 24/07/2015.	Other



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

Table 1. CLs from this validation

CL ID	xx	Section no.		Date: DD/MM/YYYY
Description of CL				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Table 2. CARs from this validation

CAR ID	xx	Section no.		Date: DD/MM/YYYY
Description of CAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Table 3. FARs from this validation

FAR ID	xx	Section no.		Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

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**Document information**

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none"><li>• Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN);</li><li>• Make editorial improvements.</li></ul>
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.
Decision Class: Regulatory Document Type: Form Business Function: Registration Keywords: post-registration change, project activities, validation report		