

**Annex 6****GUIDELINES FOR USERS OF THE
JOINT IMPLEMENTATION LAND USE, LAND-USE CHANGE AND FORESTRY
PROJECT DESIGN DOCUMENT FORM****Note by the secretariat**

1. Based on a request by the JISC at its sixteenth meeting, the secretariat presented to the JISC at its seventeenth meeting an analysis of the inputs to the call for public inputs on the contents of a determination and verification manual (DVM), conducted from 28 April until 17 May 2009, on necessary revisions to the existing documents adopted by the JISC. The JISC considered this analysis and agreed on priority areas to consider further, including, a grace period for the use of approved CDM methodologies, and the partial use of approved CDM methodologies under the JI specific approach.
2. The JISC, at its seventeenth meeting, requested the secretariat to prepare draft revisions of existing documents adopted by the JISC reflecting the priority areas referred to in paragraph 1 above.
3. The present document was revised by the secretariat based on the request by the JISC in accordance with paragraph 2 above.



**GUIDELINES FOR USERS OF THE
JOINT IMPLEMENTATION LAND USE, LAND-USE CHANGE AND FORESTRY
PROJECT DESIGN DOCUMENT FORM**

Version 0304

<i>Revision history of the document</i>		
Document version	Adoption	Revision
Version 01	JISC 04 ¹	Initial adoption of the document developed on the basis of paragraphs 2 (d) and (e) of decision 10/CMP.1.
Version 02	JISC 06	Amendment of the “glossary of joint implementation land use, land-use change and forestry terms” (regarding the terms “Party involved” and “project approval by the Parties involved”).
Version 03	JISC 13	Revision to increase the transparency of requirements as well as the consistency of joint implementation (JI) project design documents (PDDs) prepared (during the course of this work, inter alia, the glossaries of JI terms originally contained in the single guidelines for users ² were consolidated in a separate document for reasons of transparency and comprehensiveness)
Version 04	JISC 18	Revision to reflect updates contained in version 02 of the “Guidance on criteria for baseline setting and monitoring” adopted at JISC 18

¹ Fourth meeting of the Joint Implementation Supervisory Committee

² The glossary of JI terms in the guidelines for users of the JI PDD form, the glossary of JI small-scale (SSC) terms in the guidelines for users of the JI PDD form for SSC projects and the form for submission of bundled JI SSC projects, and the glossary of JI land use, land-use change and forestry (LULUCF) terms in the guidelines for users of the JI LULUCF PDD form



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PART I

A. General information on the joint implementation land use, land-use change and forestry project design document form

1. These guidelines are to assist users of the joint implementation land use, land-use change and forestry project design document (JI LULUCF PDD) form.
2. The JI LULUCF PDD form was elaborated by the Joint Implementation Supervisory Committee (JISC) in accordance with decisions 16/CP.7 and 10/CMP.1 and the guidelines for the implementation of Article 6 of the Kyoto Protocol as contained in decision 9/CMP.1 and the annex thereto (hereinafter referred to as JI guidelines).
3. Project participants that wish to submit a project design document (PDD) for a land use, land-use change and forestry (LULUCF) project to an accredited independent entity (AIE) under the verification procedure under the JISC, as defined in the JI guidelines, paragraphs 30–45, shall submit a completed JI LULUCF PDD form.
4. The JI LULUCF PDD form can be obtained electronically from the JI section of the UNFCCC website (<<http://ji.unfccc.int/>>) or by e-mail (ji-info@unfccc.int) or in printed format from the UNFCCC secretariat (fax: +49 228 815 1999).
5. Terms, which are underlined with a broken line in the JI LULUCF PDD form, are explained in the “glossary of joint implementation terms”. Users of the JI LULUCF PDD form are strongly recommended to consult the most recent version of the glossary, available under <<http://ji.unfccc.int/Ref/Docs.html>>.
6. Project participants should also consult the section “Guidance / Clarifications” of the JI section of the UNFCCC website (<<http://ji.unfccc.int/>>). Its contents may also be obtained from the UNFCCC secretariat (e-mail: ji-info@unfccc.int, fax: +49 228 815 1999).
7. The JISC may revise the JI LULUCF PDD form, if necessary. Revisions come into effect once adopted by the JISC, bearing in mind the provisions below.
8. Revisions of the JI LULUCF PDD form do not affect projects the PDD of which:
 - (a) Has already been used as the basis for a determination by an AIE; or
 - (b) Has already been submitted to an AIE for determination prior to the adoption of the revised JI LULUCF PDD form; or
 - (c) Is submitted to an AIE within a month following the adoption of the revised JI LULUCF PDD form.
9. The JISC will not accept documentation using the previous version of the JI LULUCF PDD form six months after the adoption of a new version.
10. In accordance with the JI guidelines, the working language of the JISC is English. The JI LULUCF PDD form shall therefore be completed and submitted in English.



11. The JI LULUCF PDD form shall not be altered. It shall be completed without modifying/adding headings, logo, format or font. Tables shall not be modified or deleted (unless otherwise indicated). However, rows may be added as needed.

12. The completed JI LULUCF PDD form shall include in section A.1. the version number and the date of the document.

13. If a section of the JI LULUCF PDD form is not applicable, it shall be explicitly stated that the section is left blank on purpose.

14. The JI LULUCF PDD form is only applicable to JI LULUCF projects.



B. Glossary of joint implementation terms

1. Joint implementation (JI) means the mechanism referred to in Article 6 of the Kyoto Protocol. “For the purpose of meeting its commitments under Article 3, any Party included in Annex I may transfer to, or acquire from, any other such Party emission reduction units resulting from projects aimed at reducing anthropogenic emissions by sources or enhancing anthropogenic removals by sinks of greenhouse gases in any sector of the economy, provided that:

- (a) Any such project has the approval of the Parties involved;
- (b) Any such project provides a reduction in emissions by sources, or an enhancement of removals by sinks, that is additional to any that would otherwise occur;
- (c) It does not acquire any emission reduction units if it is not in compliance with its obligations under Articles 5 and 7; and
- (d) The acquisition of emission reduction units shall be supplemental to domestic actions for the purposes of meeting commitments under Article 3.”⁵

2. The Conference of the Parties (COP), by its decision 16/CP.7, recommended the Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol (CMP) to adopt, at its first session, a decision on guidelines for the implementation of Article 6 of the Kyoto Protocol. Accordingly, the CMP adopted decision 9/CMP.1.6

3. The JISC has developed a glossary of JI terms which is meant, inter alia, to facilitate the completion of the:

- (a) JI PDD form;
- (b) JI PDD form for SSC projects (JI SSC PDD form) and the form for submission of bundled JI SSC projects (F-JI-SSC-BUNDLE); and
- (c) JI LULUCF PDD form.

³ In this glossary, the term “Article” refers to an Article of the Kyoto Protocol to the United Nations Framework Convention on Climate Change (UNFCCC), unless the context otherwise indicates.

⁴ In this glossary, the term “Party” means, unless the context otherwise indicates, a Party to the Kyoto Protocol. “Party included in Annex I” (also “Annex I Party”) means a Party which is included in Annex I to the UNFCCC, as may be amended, or a Party which has made a notification under Article 4, paragraph 2 (g), of the UNFCCC, and which has ratified the Kyoto Protocol.

⁵ Article 6, paragraph 1, of the Kyoto Protocol

⁶ Paragraph 4 of decision 9/CMP.1 stipulates that projects under Article 6 aimed at enhancing anthropogenic removals by sinks shall conform to definitions, accounting rules, modalities and guidelines under Article 3, paragraphs 3 and 4, of the Kyoto Protocol.



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4. On the whole, the glossary aims at defining JI related terms on a general basis, but also elaborates on them in the specific context of e.g. JI SSC or JI LULUCF projects in more detail, as appropriate. Partly, terms are specifically applicable to JI SSC or JI LULUCF projects, which is explicitly indicated.
5. The most recent version of the glossary is available under <<http://ji.unfccc.int/Ref/Docs.html>> and shall be used taking into account the “**G**uidance on criteria for baseline setting and monitoring” and, as appropriate, the provisions for JI SSC projects⁷ developed by the JISC in accordance with paragraph 2 (f) of decision 10/CMP.1.

⁷ The thresholds for JI SSC projects were amended in paragraph 14 of decision 3/CMP.2.



PART II

A. Information note for the joint implementation land use, land-use change and forestry project design document form

1. The completed JI LULUCF PDD form presents information on the essential technical and organizational aspects of a LULUCF project and is a key input for determinations regarding the project under the verification procedure under the JISC as defined in paragraphs 30–45 of the JI guidelines.
2. The completed JI LULUCF PDD form contains information on the project, the baseline, and the monitoring plan chosen.
3. The project participants shall submit the completed JI LULUCF PDD form, together with attachments, if necessary, to an AIE for determination. The AIE then examines the adequacy of the information provided in the JI LULUCF PDD, especially whether it satisfies the relevant provisions of the JI guidelines. Based on this examination, the AIE makes a determination regarding the project.
4. Bearing in mind paragraph 40 of the JI guidelines, project participants shall submit documentation that contains confidential/proprietary information in two versions:
 - A marked-up version where all confidential/proprietary parts have been made illegible by the project participants (e.g. by covering those parts with black ink) so that it can be made public;
 - A version containing all information, i.e. including parts which shall be treated as strictly confidential by all persons handling this documentation (AIEs, JISC members and alternate members, and panel, subcommittee and working group members, external experts requested to consider such documents in support of the work of the JISC, and the secretariat, as applicable).



B. Specific guidelines for users of the joint implementation land use, land-use change and forestry project design document form

**CONTENTS OF THE
JOINT IMPLEMENTATION LAND USE, LAND-USE CHANGE AND FORESTRY
PROJECT DESIGN DOCUMENT FORM**

- A. General description of the LULUCF project
- B. Baseline
- C. Duration of the LULUCF project / crediting period
- D. Monitoring plan
- E. Estimation of enhancements of net anthropogenic removals by sinks
- F. Environmental impacts
- G. Stakeholders' comments

Annexes

Annex 1: Contact information on project participants

Annex 2: Baseline information

Annex 3: Monitoring plan



SECTION A. General description of the LULUCF project

A.1. Title of the LULUCF project:

Please indicate:

- The title of the LULUCF project;
- The sectoral scope⁸ to which the LULUCF project pertains;
- The version number of the document;
- The date of the document.

A.2. Description of the LULUCF project:

Please include in the description the purpose of the LULUCF project with a concise, summarizing explanation (max. 1-2 pages) of the:

- a) Situation existing prior to the starting date of the LULUCF project;
- b) Baseline scenario; and
- c) Project scenario (expected outcome, including a technical description).

Please also briefly summarize the history of the LULUCF project (incl. its JI component).

A.3. Project participants:

Please list project participants and Parties involved in this section and provide contact information in annex 1. Information shall be provided in the following tabular format.

<u>Party involved</u> *	Legal entity <u>project participant</u> (as applicable)	Please indicate if the <u>Party involved</u> wishes to be considered as <u>project participant</u> (Yes/No)
Party A	<ul style="list-style-type: none"> • Legal entity A1 • Legal entity A2 • ... 	Yes/No
Party B	<ul style="list-style-type: none"> • Legal entity B1 • Legal entity B2 • ... 	Yes/No
...	<ul style="list-style-type: none"> •

* Please indicate if the Party involved is a host Party.

A.4. Technical description of the LULUCF project:

A.4.1. Location of the LULUCF project:

A.4.1.1. Host Party(ies):

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

A.4.1.3. City/Town/Community etc.:

⁸ The list of sectoral scopes adopted by the JISC is available on the UNFCCC JI website (<<http://ji.unfccc.int/>>) in section "Reference" ("Procedures").



A.4.1.4. Detailed delineation of the project boundary including information allowing the unique identification of the LULUCF project:

The project boundary geographically delineates the LULUCF project under the control of the project participants. The LULUCF project may contain more than one discrete area of land. In this case:

- Each discrete area of land should have a unique geographical identification;
- The project boundary should be defined for each discrete area, and should not include the areas in between these discrete areas of land.

The information provided shall ensure that areas of land are identifiable.

A.4.2. Conformity with the definitions of LULUCF activities:

Please specify how the LULUCF project conforms to the definitions of LULUCF activities included in paragraph 1 of the annex to decision 16/CMP.1, applying the good practice guidance for land use, land-use change and forestry as decided by the COP/MOP, as appropriate.

In the case of afforestation, reforestation and/or forest management projects, project participants shall apply the definition of “forest” selected by the host Party, which specifies:

- A single minimum tree crown cover value between 10 and 30 per cent; and
- A single minimum land area value between 0.05 and 1 hectare; and
- A single minimum tree height value between 2 and 5 metres.

A.4.3. Technology(ies) to be employed, or measures, operations or actions to be implemented by the LULUCF project:

Please describe the technology(ies) to be employed, or measures, operations or actions to be implemented by the LULUCF project, including all relevant technical data and the implementation schedule.

Please indicate in the description the species and varieties selected for the LULUCF project.

A.4.4. Brief explanation of how the net anthropogenic removals by sinks are to be enhanced by the proposed JI LULUCF project, including why these enhancements would not occur in the absence of the proposed project, taking into account national and/or sectoral policies and circumstances:

Please explain briefly how the net anthropogenic removals by sinks are to be enhanced (details to be provided in section B.) and provide the estimate(s) of anticipated total enhancements of net anthropogenic removals by sinks in tonnes of CO₂ equivalent as determined in section E. Max. length: one page.



A.4.4.1. Estimated enhancements of net anthropogenic removals by sinks over the crediting period:

Please indicate the length of the crediting period and provide estimates of total as well as annual enhancements of net anthropogenic removals by sinks. Estimates shall take into account the good practice guidance for land use, land-use change and forestry developed by the Intergovernmental Panel on Climate Change. Information shall be provided using the following tabular format.

Length of the <u>crediting period</u> : ____/____ Years/Months	
Year	Estimate of annual enhancements of <u>net anthropogenic removals by sinks</u> in tonnes of CO ₂ equivalent
Year A	
Year B	
Year ...	
Total estimated enhancements of <u>net anthropogenic removals by sinks</u> over the <u>crediting period</u> (tonnes of CO ₂ equivalent)	
Annual average of estimated enhancements of <u>net anthropogenic removals by sinks</u> over the <u>crediting period</u> (tonnes of CO ₂ equivalent)	

A.5. Project approval by the Parties involved:

Written approvals by the Parties involved should be attached.



SECTION B. Baseline

According to decision 9/CMP.1, paragraph 4, JI projects aimed at enhancing anthropogenic removals by sinks shall conform to definitions, accounting rules, modalities and guidelines under Article 3, paragraphs 3 and 4, of the Kyoto Protocol. Decision 16/CMP.1, paragraph 2, states that good practice guidance, and methods to estimate, measure, monitor and report changes in carbon stocks and anthropogenic greenhouse gas emissions by sources and removals by sinks resulting from land use, land-use change and forestry activities, as developed by the Intergovernmental Panel on Climate Change, shall be applied by Parties, if decided in accordance with relevant decisions of the COP/MOP. According to decision 17/CMP.1, paragraph 1, Parties included in Annex I to the Convention that have ratified the Kyoto Protocol shall apply for the first commitment period the good practice guidance for land use, land-use change and forestry, as developed by the Intergovernmental Panel on Climate Change.

A baseline has to be set in accordance with appendix B of the JI guidelines and further “Guidance on **criteria for** baseline setting and monitoring” developed by the JISC.

In general, a baseline shall be established:

- On a project-specific basis and/or using a multi-project emission factor;
- In a transparent manner with regard to the choice of approaches, assumptions, methodologies, parameters, data sources and key factors;
- Taking into account relevant national and/or sectoral policies and circumstances, such as sectoral reform initiatives, local fuel availability, power sector expansion plans, and the economic situation in the project sector;
- In such a way that emission reduction units (ERUs) cannot be earned for decreases in activity levels outside the project activity or due to force majeure;
- Taking account of uncertainties and using conservative assumptions.

Project participants shall justify their choice of baseline.

~~As appropriate~~ **Where applicable**, project participants may **opt to**, ~~but are not obliged to~~, apply approved clean development mechanism (CDM) baseline and monitoring methodologies.

Please note that this section B. shall contain all key elements of the baseline. Annex 2 (baseline information) that should be prepared in parallel to completing the remainder of this section shall contain a summary of the key elements in tabular form as well as additional supporting documentation/information.



B.1. Description and justification of the baseline chosen:

Please describe and justify the baseline chosen in accordance with appendix B of the JI guidelines **and the “Guidance on criteria for baseline setting and monitoring”**, using the following step-wise approach:

Step 1. Indication and description of the approach chosen regarding baseline setting

Please explicitly indicate which of the approaches regarding baseline setting, defined in the JISC’s **“Guidance on criteria for baseline setting and monitoring”**, is chosen.

a) **If a JI specific approach regarding baseline setting is used in accordance with paragraph 9 (a) of the “Guidance for baseline setting and monitoring”, please describe the baseline in accordance with paragraph 23 through 29 of the “Guidance on criteria for baseline setting and monitoring. Elements or combinations of approved CDM baseline and monitoring methodologies may be applied, as appropriate, but note that the use of the most recent version(s) is encouraged.**~~If an approved CDM baseline and monitoring methodology is used, please indicate its title and reference number, as well as its version, and describe why it is applicable.~~

~~In case of deviations from the applied approved CDM baseline and monitoring methodology, please provide a complete, clear and transparent description and justification of the deviations. In doing so, please also provide an analysis of how the proposed deviations affect the assumptions, formulae, parameters, data sources and key factors used in the methodology, and state how uncertainties are taken into account and conservativeness is safeguarded.~~

b) **If an approved CDM baseline and monitoring methodology is used, in accordance with paragraph 10 of the “Guidance on criteria for baseline setting and monitoring”, the most recent version of the CDM methodology shall be applied when the project design document (PDD) is submitted for publication on the UNFCCC JI website. The approved CDM methodology shall be used in its totality, including all explanations, descriptions and analyses. Please indicate the title and reference number of the methodology, as well as its version, and describe why it is applicable.**~~If a JI specific approach regarding baseline setting is used, please provide a detailed theoretical description in a complete and transparent manner, as well as a justification referring to the JISC’s guidance on criteria for baseline setting and monitoring. Please include in the description all assumptions, formulae, parameters, data sources and key factors, and state how uncertainties are taken into account and conservativeness is safeguarded.~~

Step 2. Application of the approach chosen

Please apply the approach outlined in step 1 above in the context of the LULUCF project.

Please provide the key information and data used to establish the baseline (variables, parameters, data sources etc.) in tabular form.

⁹ The current version of the guidance on criteria for baseline setting and monitoring adopted by the JISC is available on the UNFCCC JI website (<<http://ji.unfccc.int/>>) in section “Reference” (“Guidance / Clarifications”).



Please also explain how the baseline chosen takes into account the good practice guidance for land use, land-use change and forestry, developed by the Intergovernmental Panel on Climate Change, and how it ensures conformity with the definitions, accounting rules, modalities and guidelines under Article 3, paragraphs 3 and 4, of the Kyoto Protocol.

B.2. Carbon pools selected:

In calculating the net anthropogenic removals by sinks occurring within the project boundary in the project and in the baseline scenario, project participants may choose not to account for one or more carbon pools, if transparent and verifiable information is provided that these unaccounted pools are not a source. The assessment should be based on conservative assumptions. Please note that the same carbon pools shall be considered in the estimation and/or calculation of the net anthropogenic removals by sinks occurring within the project boundary in the project and in the baseline scenario.

Please present the carbon pools that are selected in the table below. Provide short explanations and justifications for the choice.

<u>Carbon pools</u>	<u>Selected</u> (yes/no)	<u>Justification / Explanation</u> (If needed, please use the space at the bottom of the table)
Above-ground biomass		
Below-ground biomass		
Dead wood		
Litter		
Soil organic carbon		

Further justification / explanation:



B.3. Specification of the greenhouse gas sources whose emissions will be part of the LULUCF project:

Please use the table below to identify the sources of greenhouse gas emissions within the project boundary of the LULUCF project, e.g. soil preparation, machinery and fertilisation.

Please note that CO₂ emissions or removals resulting from changes in carbon stocks should not be included in this table. Please explain whether any emission sources are excluded and if yes, justify their exclusion. If possible, please use the table provided below. Please add rows for other GHG sources, as needed.

Source	Gas	Included/ excluded	Justification / Explanation (If needed, please use the space at the bottom of the table)
Use of fertilisers	CO ₂		
	CH ₄		
	N ₂ O		
Combustion of fossil fuels used in on-site vehicles	CO ₂		
	CH ₄		
	N ₂ O		

Further justification/explanation:



B.4. Description of how the net anthropogenic removals by sinks are enhanced above those that would have occurred in the absence of the JI LULUCF project:

Please demonstrate that the LULUCF project provides enhancements of net anthropogenic removals by sinks that are additional to any that would otherwise occur, using the following step-wise approach:

Step 1. Indication and description of the approach applied

a) If a JI specific approach is used, please explicitly indicate which of the approaches to demonstrate additionality, defined in **paragraph 2 of the annex I to the “Guidance on criteria for baseline setting and monitoring”¹⁰**, is chosen.

b) a) If a methodology n-approach approved by the CDM Executive Board is used **in accordance with paragraph 10 of the “Guidance on criteria for baseline setting and monitoring”**, please ~~indicate~~**provide** clear references (e.g. title of the baseline and monitoring methodology or tool, relevant version of the methodology or tool etc.) and describe why and how it is applicable.

~~b) If a JI specific approach is chosen, please provide a reference and justify, with a clear and transparent description, its applicability, as appropriate.~~

Step 2. Application of the approach chosen

Please apply the approach outlined in step 1 above in the context of the LULUCF project.

Step 3. Provision of additionality proofs

In any case, please include or attach relevant additionality proofs.

B.5. Description of how the definition of the project boundary is applied to the LULUCF project:

For details please refer to the JISC’s **“Guidance on criteria for baseline setting and monitoring”¹¹**.

B.6. Further baseline information, including the date of baseline setting and the name(s) of the person(s)/entity(ies) setting the baseline:

Please provide date of baseline setting (DD/MM/YYYY).

Please provide contact information and indicate if the person/entity is also a project participant listed in annex 1.

¹⁰ The current version of the guidance on criteria for baseline setting and monitoring adopted by the JISC is available on the UNFCCC JI website (<<http://ji.unfccc.int/>>) in section “Reference” (“Guidance / Clarifications”).

¹¹ The current version of the guidance on criteria for baseline setting and monitoring adopted by the JISC is available on the UNFCCC JI website (<<http://ji.unfccc.int/>>) in section “Reference” (“Guidance / Clarifications”).



SECTION C. Duration of the LULUCF project / crediting period

C.1. Starting date of the project:

The starting date of a JI project is the date on which the implementation or construction or real action of the project begins.

Projects starting as of 2000 may be eligible as JI projects if they meet the requirements of the JI guidelines. ERUs shall only be issued for a crediting period starting after the beginning of 2008.

C.2. Expected operational lifetime of the project:

Please state the expected operational lifetime of the project in years and months.

C.3. Length of the crediting period:

Please state the length of the crediting period in years and months as well as its starting date.

Please note that ERUs shall only be issued for a crediting period starting after the beginning of 2008 and that the crediting period shall not extend beyond the operational lifetime of the project. The crediting period can extend beyond 2012 subject to the approval by the host Party.¹²

¹² The status of emission reductions or enhancements of net removals generated by JI projects after the end of the first commitment period may be determined by any relevant agreement under the UNFCCC.



SECTION D. Monitoring plan

According to decision 9/CMP.1, paragraph 4, JI projects aimed at enhancing anthropogenic removals by sinks shall conform to definitions, accounting rules, modalities and guidelines under Article 3, paragraphs 3 and 4, of the Kyoto Protocol. Decision 16/CMP.1, paragraph 2, states that good practice guidance, and methods to estimate, measure, monitor and report changes in carbon stocks and anthropogenic greenhouse gas emissions by sources and removals by sinks resulting from land use, land-use change and forestry activities, as developed by the Intergovernmental Panel on Climate Change, shall be applied by Parties, if decided in accordance with relevant decisions of the COP/MOP. According to decision 17/CMP.1, paragraph 1, Parties included in Annex I to the Convention that have ratified the Kyoto Protocol shall apply for the first commitment period the good practice guidance for land use, land-use change and forestry, as developed by the Intergovernmental Panel on Climate Change.

A monitoring plan has to be established in accordance with appendix B of the JI guidelines and further “Guidance on **criteria for baseline** setting and monitoring”, developed by the JISC.

~~As appropriate~~ **Where applicable**, project participants may **opt to**, ~~but are not obliged to~~, apply approved CDM baseline and monitoring methodologies. ~~If an approved CDM baseline and monitoring methodology is used, any guidance contained in the methodology shall be taken into consideration.~~

The monitoring plan needs to provide detailed information on the collection and archiving of all relevant data necessary for determining:

- project emissions and removals,
- baseline emissions and removals, and
- leakage effects.

The monitoring plan should reflect good monitoring practice appropriate to the project type.

If a national or international monitoring standard has to be applied to monitor certain aspects of the LULUCF project, please identify this standard and provide a reference as to where a detailed description of the standard can be found.

Project participants shall implement the determined monitoring plan and provide data in accordance with the plan through their monitoring reports.

Please note that data monitored and required for determination shall be kept for two years after the last transfer of ERUs for the project.

This section D. shall provide a detailed description of all key elements of the monitoring plan, which is to be attached in annex 3.



D.1. Description of monitoring plan chosen:

Please provide a detailed description of the monitoring plan, using the following step-wise approach:

Step 1. Indication and description of the approach chosen regarding monitoring

Please explicitly indicate which of the approaches regarding monitoring, defined in the JISC's "Guidance on criteria for baseline setting and monitoring"¹³, is chosen:

a) If a JI specific approach is used for monitoring in accordance with paragraph 9 (a) of the "Guidance on criteria for baseline setting and monitoring", please describe the monitoring plan in accordance with paragraph 30 of the "Guidance on criteria for baseline setting and monitoring". Elements or combinations of approved CDM baseline and monitoring methodologies may be applied, as appropriate, but note that the use of the most recent version(s) is encouraged.
~~a) If an approved CDM baseline and monitoring methodology is used, please indicate its title and reference number, as well as its version, and describe why it is applicable.~~

~~In case of deviations from the applied approved CDM baseline and monitoring methodology, please provide a complete, clear and transparent description and justification of the deviations. In doing so, please also provide an analysis of how the proposed deviations affect the assumptions, formulae, parameters, data sources and key factors used in the methodology, and state how uncertainties are taken into account and conservativeness is safeguarded.~~

b) If an approved CDM baseline and monitoring methodology is used, in accordance with paragraph 10 of the "Guidance on criteria for baseline setting and monitoring", the most recent version of the CDM methodology shall be applied when the project design document (PDD) is submitted for publication on the UNFCCC JI website. The approved CDM methodology shall be used in its totality, including all explanations, descriptions and analyses. Please indicate the title and reference number of the methodology, as well as its version, and describe why it is applicable.

~~b) If a JI specific approach regarding monitoring is used, please provide a detailed theoretical description in a complete and transparent manner, as well as a justification referring to the JISC's guidance on criteria for baseline setting and monitoring. Please include in the description all assumptions, formulae, parameters, data sources and key factors, and state how uncertainties are taken into account and conservativeness is safeguarded.~~

Step 2. Application of the approach chosen

Please apply the approach outlined in step 1 above in the context of the LULUCF project.

In the sections below, please explicitly and clearly distinguish:

¹³ The current version of the guidance on criteria for baseline setting and monitoring adopted by the JISC is available on the UNFCCC JI website (<<http://ji.unfccc.int/>>) in section "Reference" ("Guidance / Clarifications").



- a) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), and that are available already at the stage of determination regarding the PDD;
- b) Data and parameters that are not monitored throughout the crediting period, but are determined only once (and thus remain fixed throughout the crediting period), but that are not already available at the stage of determination regarding the PDD; and
- c) Data and parameters that are monitored throughout the crediting period.

Please explain how the monitoring plan chosen takes into account the good practice guidance for land use, land-use change and forestry, developed by the Intergovernmental Panel on Climate Change, and how it ensures conformity with the definitions, accounting rules, modalities and guidelines under Article 3, paragraphs 3 and 4, of the Kyoto Protocol.

D.1.1. Sampling design and stratification:

Please describe the sampling design that will be used for the calculation of the net anthropogenic removals by sinks occurring within the project boundary in the project scenario and, in case the baseline is monitored, in the baseline scenario. The sampling design shall describe, inter alia, stratification, determination of number of plots and plot distribution etc.

D.1.2. Monitoring of the anthropogenic emissions by sources and removals by sinks in the project and baseline scenarios:

D.1.2.1. Data to be collected in order to monitor the changes in carbon stocks in the carbon pools within the project boundary in the project scenario, and how these data will be archived (for each carbon pool and in units of CO₂ equivalent):

Please describe the data to be collected and how they will be archived. Please add rows to the table, as needed.

D.1.2.2. Data to be collected in order to monitor the greenhouse gas emissions by sources within the project boundary in the project scenario, and how these data will be archived (for each gas, source, etc.; in units of CO₂ equivalent):

Please describe the data to be collected and how they will be archived. Please add rows to the table, as needed.

D.1.2.3. Description of formulae and/or models used to estimate the changes in carbon stocks in the carbon pools within the project boundary in the project scenario (for each carbon pool and in units of CO₂ equivalent):

The definition and utilisation of formulae and/or models, variables and subscripts should be consistent throughout the document.



D.1.2.4. Description of formulae and/or models used to estimate the greenhouse gas emissions by sources within the project boundary in the project scenario (for each gas, source, etc.; in units of CO₂ equivalent):

The definition and utilisation of formulae and/or models, variables and subscripts should be consistent throughout the document.

D.1.2.5. Data necessary for determining the changes in carbon stocks in the carbon pools within the project boundary in the baseline scenario, and how these data will be collected and archived (for each carbon pool and in units of CO₂ equivalent):

Please describe the data to be collected and how they will be archived. Please add rows to the table, as needed.

D.1.2.6. Data necessary for determining the greenhouse gas emissions by sources within the project boundary in the baseline scenario, and how these data will be collected and archived (for each gas, source, etc.; in units of CO₂ equivalent):

Please describe the data to be collected and how they will be archived. Please add rows to the table, as needed.

D.1.2.7. Description of formulae and/or models used to estimate the changes in carbon stocks in the carbon pools within the project boundary in the baseline scenario (for each carbon pool and in units of CO₂ equivalent):

The definition and utilisation of formulae and/or models, variables and subscripts should be consistent throughout the document.

D.1.2.8. Description of formulae and/or models used to estimate the greenhouse gas emissions by sources within the project boundary in the baseline scenario (for each gas, source, etc.; in units of CO₂ equivalent):

The definition and utilisation of formulae and/or models, variables and subscripts should be consistent throughout the document.

D.1.3. Treatment of leakage in the monitoring plan:

D.1.3.1. If applicable, please describe the data and information that will be collected in order to monitor leakage (for each gas, source, carbon pool, etc.; in units of CO₂ equivalent):

Please add rows to the table, as needed. If not applicable, please state so.

D.1.3.2. Description of formulae and/or models used to estimate leakage (for each gas, source, carbon pool, etc.; in units of CO₂ equivalent):

The definition and utilisation of formulae and/or models, variables and subscripts should be consistent throughout the document. If not applicable, please state so.



D.1.4. Description of formulae/and or models used to estimate the enhancements of net anthropogenic removals by sinks by the LULUCF project (for each gas, carbon pool, source, etc.; in units of CO₂ equivalent):

The definition and utilisation of formulae and/or models, variables and subscripts should be consistent throughout the document.

D.1.5. Where applicable, in accordance with procedures as required by the host Party, information on the collection and archiving of information on the environmental impacts of the LULUCF project:

Please provide information on the collection and archiving of information on the environmental impacts of the LULUCF project. Please provide reference to the relevant host Party regulation(s). If not applicable, please state so.

D.2. Quality control (QC) and quality assurance (QA) procedures undertaken for data monitored:

Please refer to data contained in section D.1., as applicable.

D.3. Please describe the operational and management structure that the LULUCF project operator will apply in implementing the monitoring plan:

D.4. Name of person(s)/entity(ies) establishing the monitoring plan:

Please provide contact information and indicate if the person/entity is also a project participant listed in annex 1.



SECTION E. Estimation of enhancements of net anthropogenic removals by sinks

Estimates shall take into account the good practice guidance for land use, land-use change and forestry developed by the Intergovernmental Panel on Climate Change and be consistent throughout the document.

Please attach detailed calculations if deemed necessary to ensure transparency.

E.1. Estimated project net anthropogenic removals by sinks:

Please provide estimates of the sum of the changes in the carbon stocks in the carbon pools within the project boundary, minus the emissions of greenhouse gases by sources within the project boundary in the project scenario. Estimates should be given for each carbon pool, source, gas, etc.; in units of CO₂ equivalent.

E.2. Estimated baseline net anthropogenic removals by sinks:

Please provide estimates of the sum of the changes in the carbon stocks in the carbon pools within the project boundary, minus the emissions of greenhouse gases by sources within the project boundary in the baseline scenario. Estimates should be given for each carbon pool, source, gas, etc.; in units of CO₂ equivalent.

E.3. The difference between E.1. and E.2.:

E.4. Estimated leakage:

Please provide estimates of any leakage. Estimates should be given for each gas, carbon pool, source, etc.; in units of CO₂ equivalent. If not applicable, please state so.

E.5. The difference between E.3. and E.4 representing the estimated enhancements of net anthropogenic removals by sinks:

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

The result of the application of the formulae above shall be indicated using the following tabular format.				
Year	Estimated <u>project net anthropogenic removals by sinks</u> (tonnes of CO ₂ equivalent)	Estimated <u>baseline net anthropogenic removals by sinks</u> (tonnes of CO ₂ equivalent)	Estimated <u>leakage</u> (tonnes of CO ₂ equivalent)	Estimated enhancements of <u>net anthropogenic removals by sinks</u> (tonnes of CO ₂ equivalent)
Year A				
Year B				
Year ...				
Total (tonnes of CO ₂ equivalent)				



SECTION F. Environmental impacts

F.1. Documentation on the analysis of the environmental impacts of the LULUCF project, including transboundary impacts, in accordance with procedures as determined by the host Party:

Please list and attach the documentation to the JI PDD.

F.2. If environmental impacts are considered significant by the project participants or the host Party, please provide conclusions and all references to supporting documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party:



SECTION G. Stakeholders' comments

G.1. Information on stakeholders' comments on the LULUCF project, as appropriate:

Please provide:

- A list of stakeholders from whom comments on the LULUCF project have been received;
- Nature of the comments; and
- Whether and how the comments have been addressed.

If not applicable, please state so.



Annex 1

CONTACT INFORMATION ON PROJECT PARTICIPANTS

Please copy and paste table as needed. Please fill in the following mandatory fields for each organisation listed in section A.3.: organisation, name of contact person, street, city, postal code, country, phone and fax or e-mail.

Annex 2

BASELINE INFORMATION

Please provide a table containing the key elements of the baseline (including variables, parameters and data sources).

Please also attach additional supporting documentation/information.

Annex 3

MONITORING PLAN

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