**CLEAN DEVELOPMENT MECHANISM**
**SMALL-SCALE PROGRAM ACTIVITY DESIGN DOCUMENT FORM (CDM-SSC-CPA-DD)**
**Version 01**

## CONTENTS



## Annexes



NOTE:

(i) This form is for submission of CPAs that apply a small scale approved methodology using the provision of the proposed small scale CDM PoA.

(ii) The coordinating/managing entity shall prepare a CDM Small Scale Programme Activity Design Document (CDM-SSC-CPA-DD)[1,2] that is specified to the proposed PoA by using the provisions stated in the SSC PoA DD. At the time of requesting registration the SSC PoA DD must be accompanied by a CDM-SSC CPA-DD form that has been specified for the proposed SSC PoA, as well as by one completed CDM-SSC CPA-DD (using a real case). After the first CPA, every CPA that is added over time to the SSC PoA must submit a completed CDM-SSC CPA-DD.

[1] The latest version of the template form CDM-CPA-DD is available on the UNFCCC CDM web site in the reference/document section.

[2] At the time of requesting validation/registration, the coordinating managing entity is required to submit a completed CDM-POA-DD, the PoA specific CDM-CPA-DD, as well as one of such CDM-CPA-DD completed (using a real case).

## SECTION A. General description of small scale CDM programme activity (CPA)

### A.1. Title of the small-scale CPA:

>>
[XXX] Biogas Project ([CPA reference number]).
CPA Number: [XXX]

Version: [XXX]
Date: [XXX]

### A.2. Description of the small-scale CPA:

>>
The CDM Programme Activity (hereinafter referred to as "CPA") for the [XXX] Biogas Project ([CPA reference number]) involves [technology/measure proposed]. The CPA will be developed by [XXX] under the Malaysia Biogas Projects Programme of Activities (PoA). This CPA is a Small Scale (SSC) project activity and does not exceed the limits of 60,000 tCO2e in the Type III SSC methodology.

Under this section, the project proponent will be required to elaborate on the following:

1. The objectives of the CPA.
2. The technologies/measures to be implemented.
3. CPA contribution to reduce the GHG emissions
4. Expected benefit from the implementation of the project activity.
5. Identification of all the parties involved in this CPA.
6. Authorization for this CPA to be subscribed into the PoA.
7. A brief description of project baseline.

**Contribution of the CPA to sustainable development**

The CPA will promote and support the sustainable development policies of Malaysia and bring direct benefits towards achieving sustainable development. The project will bring direct and indirect sustainable development (social, economic and environmental) benefits as listed below:

**Environmental criteria**
[XXX]

**Economic criteria**
[XXX]

**Social criteria**
[XXX]

### A.3. Entity/individual responsible for the small-scale CPA:

>>
Here the information on the entity/individual responsible for the CPA shall be included, henceforth referred to as CPA implementer(s). CPA implementers can be project participants of the CPA.

| Name of Party involved (*) ((host) indicates a host Party) | Private and/or public entity(ies) project participants (*) (as applicable) | Project Implementer (Yes/No) | Kindly indicate if the Party involved wishes to be considered as project participant (Yes/No) |
|---|---|---|---|
| Malaysia (host) | [XXX] | [XXX] | [XXX] |
| Annex I country | [XXX] | [XXX] | [XXX] |

GenPower Carbon Solutions Services (Malaysia) is the coordinating / managing entity for the PoA.

## A.4. Technical description of the small-scale CPA:

The project activity is applying the AMS III.H. "Methane recovery in wastewater treatment" Version [XXX] methodology under the type III project activities "Scope 13 – Waste Handling and Disposal".

[Detail technical description of the CPA]

Project Activity Boundary
[Outline the project boundary]

### A.4.1. Identification of the small-scale CPA:

>>

#### A.4.1.1. Host Party:

>>
Malaysia

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

>> Geographic reference or other means of identification[3], Name/contact details of the entity/individual responsible for the CPA, e.g. in case of stationary CPA geographic reference, in case of mobile CPAs means such as registration number, GPS devices.

The CPA is a [stationary/mobile] CPA. The distinct geographical identification of the CPA is as follows:

| Name | Reference Number | District | State | Geographic Reference |
|---|---|---|---|---|
| | | | | GPS Coordinate |
| | | | | |

[Map showing location of the CPA]

[3] E.g. in case of stationary CPA geographic reference, in case of mobile CPAs means such as registration number, GPS devices.

The name and the contact details responsible for the CPA are listed below:

[XXX]

**A.4.2. Duration of the small-scale CPA:**

**A.4.2.1. Starting date of the small-scale CPA:**

>>
[XXX]

[The earliest date at which either the implementation or construction or real action begins and cannot be prior to the commencement of validation of the PoA, i.e. the date on which the CDM-POA-DD is first published for global stakeholder consultation]

**A.4.2.2. Expected operational lifetime of the small-scale CPA:**

>>
[XXX]

[Expected project lifespan]

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

**Renewable crediting period; or**

**Fixed Crediting period**

**[Delete the one that is not applicable]**

[Project Participant has to choose and state either one of the options above]

[The crediting period for a CPA must not extend beyond the operational lifetime of the CPA]

**A.4.3.1. Starting date of the crediting period:**

>>
[XXX]

[The starting date of a crediting period of the CPA shall be the date of its inclusion in this PoA or any date thereafter]

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

>>
The length of the crediting period is [10/7] years, [fixed/renewable].

[The crediting period will be limited to the end date of the PoA and shall not exceed the end date of the PoA]

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

>>

| Year | Annual estimation of emission reductions in tonnes of $CO_{2e}$ |
|---|---|
| Year 1 | |
| Year 2 | |
| Year 3 | |
| Year ... | |
| **Total Estimated Reductions (tonnes of $CO_{2e}$)** | |
| **Total number of Crediting Years** | [**10/7**] |
| **Annual average of the estimated reductions over the crediting period ($tCO_{2e}$)** | |

**A.4.5. Public funding of the CPA:**

>>

The project [has/has not] received and [will/will not be] seeking public funding from Annex 1 countries.

[In case the CPA uses any public funding, the information regarding the public funding will be provided here and also in the Annex 2]

**A.4.6. Information to confirm that the proposed small-scale CPA is not a de-bundled component**

>>

Based on the "Guidance for determining the occurrence of de-bundling under a Programme of Activity" to ensure that the proposed CPA is not a de-bundled component of another CDM programme activity (CPA) or CDM project activity set up in the PoA, GPCS has checked and confirmed that this CPA is not a debundled component of a large project activity which:

1. Has the same activity implementer as the proposed small scale CPA or has a coordinating or managing entity, which also manages a large scale PoA of the same sectoral scope, and;
2. The boundary is within 1 km of the boundary of the proposed small-scale CPA, at the closest point.

GPCS, as the managing entity, has checked the CPA and PoA database in the UNFCCC website and also has consulted Designated National Authority of Malaysia to confirm that the [XXX] has not been registered either as CDM project activities or as a CPA of another PoA.

[XXX] also has issued an authorization letter to GPCS informing that they are aware of and have agreed that the activity is being subscribed to the PoA and they are not registered either as CDM project activity or as a CPA of another PoA.

**A.4.7. Confirmation that small-scale CPA is neither registered as an individual CDM project activity or is part of another Registered PoA:**

>>
GPCS, as the managing entity, has checked the PoA database available on UNFCCC website, as explained under section A.4.6. The small scale CPA [XXX] Biogas Project ([CPA reference number]) is the CPA under Malaysia Biogas Projects PoA and neither registered as an individual CDM project activity nor is part of another registered PoA.

## SECTION B. Eligibility of small-scale CPA and Estimation of emissions reductions

### B.1. Title and reference of the Registered PoA to which small-scale CPA is added:

>>
The title of the PoA to which the CPA is to be added is "Malaysia Biogas Projects"

Version: [XXX]
Date: [XXX]

### B.2. Justification of the why the small-scale CPA is eligible to be included in the Registered PoA :

>>
The Malaysia Biogas Projects PoA has described eligibility criteria required in section A.4.2.2. "Eligibility criteria for inclusion of a SSC-CPA in the PoA" for enrolling the CPA in the PoA.

The CPA [XXX] Biogas Project ([CPA reference number]) complies with all the eligibility criteria and therefore is eligible to be included under the PoA. The demonstration of compliance is described below:

| No. | PoA Eligibility Criteria for Enrolling CPA | Justification in relation to the CPA |
|---|---|---|
| 1 | The project must comprise measures that recover biogas from biogenic organic matter in wastewater by means of one, or a combination of the following options:<br>a. Substitution of aerobic wastewater or sludge treatment systems with anaerobic system with biogas recovery and combustion.<br>b. Introduction of anaerobic sludge treatment system with biogas recovery and combustion to wastewater treatment plant without sludge treatment.<br>c. Introduction of biogas recovery and combustion to sludge treatment system.<br>d. Introduction of biogas recovery and combustion to an anaerobic wastewater treatment system such as anaerobic reactor, lagoon, septic tank or an on site industrial plant that does not collect biogas.<br>e. Introduction of anaerobic wastewater treatment with biogas recovery and combustion, with or without anaerobic sludge treatment, to an untreated wastewater stream.<br>f. Introduction of sequential stage wastewater treatment with biogas recovery and combustion, | |

| | | |
|---|---|---|
| | with or without sludge treatment, to an anaerobic wastewater treatment system without biogas recovery (e.g. introduction of treatment in an anaerobic reactor with biogas recovery as a sequential treatment step for wastewater that is presently being treated in an anaerobic lagoon without methane recovery). | |
| 2 | The project developer is required to utilize at least 10 percent of the biogas for energy utilization. | |
| 3 | The project has to fulfill Malaysia's National CDM criteria. | |
| 4 | Each CPA must be approved by the managing entity prior to its incorporation into the PoA. | |
| 5 | Each CPA must demonstrate in the CPA-DD that the project activity characteristics are defined in a way that precludes project activities to go beyond the limits:<br>1. For type I: project participants shall provide proof that the installed capacity of the proposed project activity will not increase beyond 15 MW;<br>2. For type III: project participants shall provide an estimation of emission reductions by the project activity over the crediting period and proof that the emission reductions every year will not go beyond the limits of 60 ktCO2e/y over the entire crediting period. | |
| 6 | Each CPA must demonstrate the project's additionality by applying "Non-binding best practise examples to demonstrate additionality for SSC project activities" or future updates. Each CPA also will have to demonstrate additionality based on the following criteria before inclusion in the PoA:<br>i. Define credible possible alternative scenarios to the project activity. Ensure that the proposed CPA is not the only alternative amongst those considered that is in compliance with mandatory regulations.<br>ii. Determine most relevant barrier in terms of investment analysis and barrier analysis to make sure the project activity is additional.<br>iii. Either simple cost analysis, investment comparison analysis or benchmark analysis will be carried out to demonstrate the | |

| | | |
|---|---|---|
| | additionality of the project.<br>iv. The CPA participation is voluntary and there is no requirement or enforcement under existing national/state/local regulations to introduce or substitute the biogas recovery system. | |

[Optional for biogas utilization where emission reduction is considered. The latest version of related methodology will be used where applicable]

| No. | CPA Criteria | Description of CPA |
|---|---|---|
| 1 | The recovered biogas from the above measures may also be utilized for the following applications instead of combustion/flaring:<br>(a) Thermal or electrical energy generation directly;<br>(b) Thermal or electrical energy generation after bottling of upgraded biogas; or<br>(c) Thermal or electrical energy generation after upgrading and distribution:<br>(i) Upgrading and injection of biogas into a natural gas distribution grid with no significant transmission constraints;<br>(ii) Upgrading and transportation of biogas via a dedicated piped network to a group of end users; or<br>(d) Hydrogen production. | . |
| | If the recovered biogas is used for project activities covered under point 1 (a), that component of the project activity can use a corresponding methodology under Type I. | |
| | If the recovered biogas is utilized for the production of hydrogen (project activities covered under point 1 (d)), that component of the project activity shall use corresponding methodology AMS-III.O. | |
| | For project activities covered under point 1 (b), if bottles with upgraded biogas are sold outside the project boundary, the end-use of the biogas shall be ensured via a contract between the bottled biogas vendor and the end-user. No emission reductions may be claimed from the displacement of fuels from the end use of bottled biogas in such situations. If however the end use of the bottled biogas is included in the project boundary and is monitored during the crediting period $CO_2$ emissions avoided by the displacement of fossil fuel can be claimed under the corresponding Type I methodology, e.g. AMS-I.C. | |
| | For project activities covered under point 1 (c) (i), emission | |

| | | |
|---|---|---|
| | reductions from the displacement of the use of natural gas are eligible under this methodology, provided the geographical extent of the natural gas distribution grid is within the host country boundaries. | |
| | For project activities covered under point 1 (c) (ii), emission reductions for the displacement of the use of fuels can be claimed following the provision in the corresponding Type I methodology, e.g. AMS-I.C. | |
| | For project activities covered under point 1 (b) and (c), this methodology is applicable if the upgrade is done using one of the following technologies[4] such that the methane content of the upgraded biogas is in accordance with relevant national regulations (where these exist) or, in the absence of national regulations, a minimum of 96% (by volume). These conditions are necessary to ensure that the recovered biogas is completely destroyed through combustion in an end use:<br>• Pressure Swing Adsorption;<br>• Absorption with/without water circulation;<br>• Absorption with water, with or without water recirculation (with or without recovery of methane emissions from discharge). | |
| | For project activities covered under point (b) and (c), additional guidance provided in Annex 1 shall be followed for the calculations, in addition to the procedures in the relevant sections below. | |

**B.3. Assessment and demonstration of additionality of the small-scale CPA , as per eligibility criteria listed in the Registered PoA:**

>>

The additionality of the CPA is demonstrated by considering that there are no mandatory regulations or requirements to recover and burn the methane produced by the anaerobic activity of POME at palm oil mills. In Malaysia, Environmental Quality (Prescribed Premises) (Crude Palm Oil) Regulation 1977 governs environmental considerations including the wastewater treatment and discharge at palm oil mills. The environmental regulations only established a restriction on discharging the POME into the water stream or land and not GHG emissions from wastewater treatment operations.

The regulation also does not specify any specific treatment technology requirement for POME treatment system. The common practice in the palm oil industry in Malaysia is to use anaerobic lagoon system in order to treat the POME up to a required level for the discharge. The anaerobic lagoons system is an effective and low-tech solution that can readily meet the discharge limits as imposed by local regulation.

[4] Please refer to annex 1 of the approved methodology AM0053/Version 01.1 regarding the description of these technologies.

[Regulation compliance description]. There is no financial incentive for the palm oil mill owners to invest into methane recovery project, particularly when there is no requirement under existing, pending, or planned national, state or local regulations.

Investment is required and necessary to implement a [project activity]. The PP has taken up an initiative to implement the project voluntarily in order to reduce the GHG emissions at the mill and contribute to global GHG emission reductions. In the absence of the CPA, the baseline scenario for [XXX] is likely to continue to use the [XXX].

The CPA is a small scale project activity. Based on section E.5.1 of the PoA, the PP has to demonstrate that the project activity would not have occurred anyway due to the three following barriers:

Technological Barrier
[XXX]

Barrier due to prevailing practice
[XXX]

Investment Analysis

[XXX]

The "Tool for the demonstration and assessment of additionality" provides three options for the appropriate analysis method: simple cost analysis (Option I), investment comparison analysis (Option II) and benchmark analysis (Option III).
**Option [XXX]: [XXX]**
[XXX]

[Other barrier can be described here]

**Conclusion**
[XXX] Biogas Project ([CPA reference number]) CPA is not business as usual scenario and it is additional. [XXX] are the most significant barriers for this CPA.

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

>>

| | Source | Gas | Included | Justification / Explanation |
|---|---|---|---|---|
| **Baseline** | Direct emissions from the wastewater treatment processes | $CO_2$ | | |
| | | $CH_4$ | | |
| | | $N_2O$ | | |
| | Emissions from electrical energy generation | $CO_2$ | | |
| | | $CH_4$ | | |
| | | $N_2O$ | | |
| | Emissions from thermal energy | $CO_2$ | | |
| | | $CH_4$ | | |

| | | | | |
|---|---|---|---|---|
| | generation | $N_2O$ | | |
| Project Activity | Biogas recovery system | $CO_2$ | | |
| | | $CH_4$ | | |
| | | $N_2O$ | | |
| | Wastewater treatment processes without biogas recovery | $CO_2$ | | |
| | | $CH_4$ | | |
| | | $N_2O$ | | |
| | Emissions from electrical energy generation | $CO_2$ | | |
| | | $CH_4$ | | |
| | | $N_2O$ | | |
| | Flaring | $CO_2$ | | |
| | | $CH_4$ | | |
| | | $N_2O$ | | |

The CPA is implemented at address below:

[XXX]

The mill is located [XXX] of Malaysia with GPS coordinates [XXX] and thus is in the geographical boundary of the PoA.

## B.5. Emission reductions:

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

>>

| **Data / Parameter:** | [XXX] |
|---|---|
| Data unit: | |
| Description: | |
| Source of data used: | |
| Value applied: | |
| Justification of the choice of data or description of measurement methods and procedures actually applied : | |
| Any comment: | |

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

>>

The ex ante emission reductions are calculated based on AMS.III-H methodology using equations explained in section E.6.2. of the PoA-DD.

**Baseline Emissions**

Baseline Information:
[XXX]

**Baseline Emissions Calculation**

[Using "Tool to calculate baseline, project and/or leakage emissions from electricity consumption"]
$BE_{power,y}$ = [XXX] $tCO_{2e}$

$$BE_{ww,treatment,y} = \sum_i (Q_{ww,i,y} * COD_{removed,i,y} * MCF_{ww,treatment,BL,i}) * B_{o,ww} * UF_{BL} * GWP_{CH4}$$

$BE_{ww,treatment,y}$ = [XXX] $tCO_{2e}$

$$BE_{treatment,s,y} = \sum_j S_{j,BL,y} * MCF_{s,treatment,BL,j} * DOC_s * UF_{BL} * DOC_F * F * 16/12 * GWP_{CH4}$$

$BE_{treatment,s,y}$ = [XXX] $tCO_{2e}$

$$BE_{ww,discharge,y} = Q_{ww,y} * GWP_{CH4} * B_{o,ww} * UF_{BL} * COD_{ww,discharge,BL,y} * MCF_{ww,BL,discharge}$$

$BE_{ww,discharge,y}$ = [XXX] $tCO_{2e}$

$$BE_{s,final,y} = S_{final,BL,y} * DOC_s * UF_{BL} * MCF_{s,BL,final} * DOC_F * F * 16/12 * GWP_{CH4}$$

$BE_{treatment,s,y}$ = [XXX] $tCO_{2e}$

$$BE_y = \{BE_{power,y} + BE_{ww,treatment,y} + BE_{s,treatment,y} + BE_{ww,dischage,y} + BE_{s,final,y}\}$$

$BE_y$ = [XXX] $tCO_{2e}$

**Project Emissions**

Project activity information:
[XXX]

**Project Emissions**

[Using "Tool to calculate baseline, project and/or leakage emissions from electricity consumption"]
$PE_{power,y}$ = [XXX] $tCO_{2e}$

$$PE_{ww,treatment,y} = \sum_i (Q_{ww,k,y} * COD_{removed,PJ,k,y} * MCF_{ww,treatment,PJ,k}) * B_{o,ww} * UF_{PJ} * GWP_{CH4}$$

$PE_{ww,treatment,y}$ = [XXX] $tCO_{2e}$

$$PE_{s,treatment,y} = \sum_{j} S_{l,PJ,y} * MCF_{s,treatment,l} * DOC_s * UF_{PJ} * DOC_F * F * 16/12 * GWP_{CH4}$$

PE $_{s,treatment,y}$ = [XXX] $tCO_{2e}$

$$PE_{ww,discharge,y} = Q_{ww,y} * GWP_{CH4} * B_{o,ww} * UF_{PJ} * COD_{ww,discharge,PJ,y} * MCF_{ww,PJ,discharge}$$

PE $_{ww,discharge,y}$ = [XXX] $tCO_{2e}$

$$PE_{s,final,y} = S_{final,PJ,y} * DOC_s * UF_{PJ} * MCF_{s,PJ,final} * DOC_F * F * 16/12 * GWP_{CH4}$$

PE $_{s,final,y}$ = [XXX] $tCO_{2e}$

$$PE_{fugitive,y} = PE_{fugitive,ww,y} + PE_{fugitive,s,y}$$

PE $_{fugitive,y}$ = [XXX] $tCO_{2e}$

$$PE_{fugitive,ww,y} = (1 - CFE_{ww}) * MEP_{ww,treatment,y} * GWP_{CH4}$$

PE $_{fugitive,ww,y}$ = [XXX] $tCO_{2e}$

$$MEP_{ww,treatment,y} = Q_{ww,y} * B_{o,ww} * UF_{PJ} * \sum_{k} COD_{removed,PJ,k,y} * MCF_{ww,treatment,PJ,k}$$

MEP $_{ww,treatment,y}$ = [XXX] tonnes

$$PE_{fugitive,s,y} = (1 - CFE_s) * MEP_{s,treatment,y} * GWP_{CH4}$$

PE $_{fugitive,s,y}$ = [XXX] $tCO_{2e}$

$$MEP_{s,treatment,y} = \sum_{l} (S_{PJ,l,y} * MCF_{s,treatment,PJ,l}) * DOC_s * UF_{PJ} * DOC_F * F * 16/12$$

MEP $_{s,treatment,y}$ = [XXX] tonnes

[Using "Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site"]

PE $_{biomass,y}$ = [XXX] $tCO_{2e}$

[Using "Tool to determine project emissions from flaring gases containing methane"]

$PE_{flaring,y}$= [XXX] $tCO_{2e}$

$$PE_y = \begin{Bmatrix} PE_{power,y} + PE_{ww,treatment,y} + PE_{s,treatment,y} + PE_{ww,discharge,y} + PE_{s,final,y} + \\ PE_{fugitive,y} + PE_{biomass,y} + PE_{flaring,y} \end{Bmatrix}$$

$PE_y$ = [XXX] $tCO_{2e}$

**Leakage Emissions**

$LE_y$= [XXX] $tCO_{2e}$
[If the technology is using equipment transferred from another activity]

**Emissions Reductions**

$$ER_{y,ex\,ante} = BE_{y,ex\,ante} - \left(PE_{y,ex\,ante} + LE_{y,ex\,ante}\right)$$

$ER_{y,\,ex\,ante}$= [XXX] $tCO_{2e}$

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

>>

| Year | Estimation of project activity emissions (tonnes of $CO_2$ e) | Estimation of baseline emissions (tonnes of $CO_2$ e) | Estimation of leakage (tonnes of $CO_2$ e) | Estimation of overall emission reductions (tonnes of $CO_2$ e) |
|---|---|---|---|---|
| Year 1 | | | | |
| Year 2 | | | | |
| Year 3 | | | | |
| Year ... | | | | |
| **Total** (tonnes of $CO_2$ e) | | | | |

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

**B.6.1. Description of the monitoring plan:**

>>

| **Data / Parameter:** | [XXX] |
|---|---|
| Data unit: | |
| Description: | |
| Source of data to be used: | |

| | |
|---|---|
| Value of data applied for the purpose of calculating expected emission reductions in section B.5 | |
| Description of measurement methods and procedures to be applied: | |
| QA/QC procedures to be applied: | |
| Any comment: | |

**MONITORING PLAN**

The purpose of this Monitoring Plan (MP) is to provide a standard monitoring procedure to this [XXX] Biogas Project ([CPA reference number]) CPA as described in the PoA. The operation and the maintenance will be done at the CPA level but GPCS as a managing entity will manage the monitoring done by this CPA to make sure that it will meet the requirements for data collection, processing and reporting. The MP shall be in accordance with all relevant rules and regulations of the CDM. The MP is an integral part of this design document and can be utilized to facilitate accurate and consistent monitoring of the Project's Certified Emission Reductions (CERs).

The MP will be followed for the duration of the project activity in order to measure and track the impacts of the project activity, at the same time prepare for the periodic verification process required confirming the amount of CERs achieved.

Specifically, the MP facilitates the following:

- Establishing and maintaining a suitable monitoring system
- Establishing and maintaining a reliable and accurate monitoring system
- Guide for the implementation of necessary measurement and management operations
- Guide for meeting CDM requirements for verification and certification

Monitoring Diagram
[XXX]

**Management and operational systems**

The [XXX] Biogas Project ([CPA reference number]) CPA has a well defined management and operational structure that meets the requirements of the PoA to ensure successful operation of the CPA and the credibility and verifiability of the CERs achieved. The CDM monitoring team will involve several staff as described below:

| Position | Report to |
|---|---|
| | Project Participant |
| | |
| | |
| CDM Monitoring Project Manager | Managing Entity |

**Task Descriptions for the project personnel**
[XXX]

The CPA will maintain a record keeping system as in applied Baseline and Monitoring Methodology. GPCS as the managing entity will ensure that each CPA will maintain standard records documenting, archiving the monitoring data in a secure database and keep the records during the entire crediting period of each CPA and two years after the crediting period. Data (paper & electronic) will be transmitted semi-annually to GPCS who is responsible for the record keeping relating to production of the Monitoring Reports. GPCS will conduct a data audit and compliance with the Monitoring Plan at least 2 times per year for each CPA.

**C.1. Please indicate the level at which environmental analysis as per requirements of the CDM modalities and procedures is undertaken. Justify the choice of level at which the environmental analysis is undertaken:**

☐ Please tick if this information is provided at the PoA level. In this case sections C.2. and C.3. need not be completed in this form.

**C.2. Documentation on the analysis of the environmental impacts, including transboundary impacts:**

>>
The CPA will not have any adverse environmental impacts, including the transboundary impacts. In addition, the activity does not fall under those that require Environmental Impact Assessment (EIA) by the host country, Malaysia. [XXX] is discharging treated POME to the [XXX] with the discharge licenses being approved by local Department of Environment (DOE) under the Environmental Quality Regulations (1978) Palm Oil Effluent Discharge Standard. There is also no regulation on the GHG emissions from wastewater treatment operation for [XXX].

Rather than causing negative impacts to the environment, the CPA will provide the following environmental benefits:
[XXX]

**C.3. Please state whether an environmental impact assessment is required for a typical CPA, included in the programme of activities (PoA), in accordance with the host Party laws/regulations:**

>>
In accordance with Malaysia environmental regulations, Environmental Quality (Prescribed Activities) Environmental Impact Assessment) Order 1987, an Environmental Impact Assessment (EIA) is not required for this CPA.

Project participant has obtained a letter of exemption for the EIA assessment from Malaysian Department of Environment on [XXX].

## SECTION D. Stakeholders' comments

>>

### D.1. Please indicate the level at which local stakeholder comments are invited. Justify the choice:

☐ Please tick if this information is provided at the PoA level. In this case sections D.2. to D.4. need not be completed in this form.

### D.2. Brief description how comments by local stakeholders have been invited and compiled:

>>

A local stakeholder's consultation was held to brief about the proposed CDM project and to invite their comments regarding the CPA. GPCS as a managing entity for the PoA and [XXX] the project participant of this CPA had issued a public announcement and invitation in [XXX] dated [XXX], inviting the stakeholders to attend the "Local Stakeholder Consultation" for the aforesaid CPA to be held on [XXX] at [XXX].

[XXX]

The stakeholder meeting was conducted [XXX] on [XXX]. There were [XXX] attending the meeting and the participants were required to register their attendance. A copy of the register will be made available to the DOE for its review.

During the meeting, presentations were made by the [XXX] to outline the proposed project activity in a non-technical manner including environmental, social and technological considerations, climate change and the understanding of the CDM. Question and answer session was held after the presentation to give the participants an opportunity to raise their comments and opinions about the proposed CDM project.

### D.3. Summary of the comments received:

>>

The following were the questions and answers given during the Q & A session:

| No. | Question | Answer |
|---|---|---|
| | | |

### D.4. Report on how due account was taken of any comments received:

>>

[XXX]

## Annex 1

## CONTACT INFORMATION ON ENTITY/INDIVIDUAL RESPONSIBLE FOR THE SMALL-SCALE CPA

| | |
|---|---|
| Organization: | [Malaysia project participant details] |
| Street/P.O.Box: | |
| Building: | |
| City: | |
| State/Region: | |
| Postfix/ZIP: | |
| Country: | |
| Telephone: | |
| FAX: | |
| E-Mail: | |
| URL: | |
| Represented by: | |
| Title: | |
| Salutation: | |
| Last Name: | |
| Middle Name: | |
| First Name: | |
| Department: | |
| Mobile: | |
| Direct FAX: | |
| Direct tel: | |

| | |
|---|---|
| Personal E-Mail: | |

| | |
|---|---|
| Organization: | [Annex I country project participant details] |
| Street/P.O.Box: | |
| Building: | |
| City: | |
| State/Region: | |
| Postfix/ZIP: | |
| Country: | |
| Telephone: | |
| FAX: | |
| E-Mail: | |
| URL: | |
| Represented by: | |
| Title: | |
| Salutation: | |
| Last Name: | |
| Middle Name: | |
| First Name: | |
| Department: | |
| Mobile: | |
| Direct FAX: | |
| Direct tel: | |
| Personal E-Mail: | |

## Annex 2

**INFORMATION REGARDING PUBLIC FUNDING**

The project [has/has not] received and [will/will not be] seeking public funding from Annex 1 countries.

## Annex 3

**BASELINE INFORMATION**

[Additional baseline information]

## Annex 4

## MONITORING INFORMATION

- - - - -