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TEMPLATE

KEY PROJECT INFORMATION & VPA DESIGN DOCUMENT (VPA DD)

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VERSION **v.2.3**

RELATED SUPPORT

- [Programme of Activity requirements](#)

- [TEMPLATE GUIDE VPA Design Document](#)

This document contains the following sections

Section A – Description of project

Section B - Application of approved Gold Standard Methodology (ies) and/or demonstration of SDG Contributions

Section C – Duration and crediting period

Section D – Summary of Safeguarding Principles and Gender Sensitive Assessment

Section E – Summary of Local stakeholder consultation

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Appendix 1 – Safeguarding Principles Assessment (mandatory)

Appendix 2- Contact information of VPA Implementer (mandatory)

Appendix 3 – LUF Additional Information (VPA specific)

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KEY PROJECT INFORMATION

Type of VPA	<input type="checkbox"/> Real case VPA <input checked="" type="checkbox"/> Regular VPA
Scale of VPA Note that a VPA can be of one scale. Please select applicable scale accordingly.	<input type="checkbox"/> Microscale <input checked="" type="checkbox"/> Small scale <input type="checkbox"/> Large scale
Title of corresponding real case VPA (if applicable)	NA
GS ID of real case VPA (if applicable)	NA
GS ID of VPA	3109
Title of VPA	Nepal Biogas Support Program-CPA 1: 20,000 Digesters
Time of First Submission Date	
Date of Design Certification	25/01/2019
Version number of the VPA-DD	1.0
Completion date of version	31/01/2025
Coordinating/managing entity	Alternative Energy Promotion Centre
VPA Implementer (s)	Alternative Energy Promotion Centre
Project Participants and any communities involved	atmosfair gGmbH;
Host Country (ies)	Nepal
GS ID and Title of applicable Design Certified VPA	NA
GS ID and Title of applicable Performance Certified VPA	NA
Activity Requirements applied	<input checked="" type="checkbox"/> Community Services Activities <input type="checkbox"/> Renewable Energy Activities <input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities

	<input type="checkbox"/> N/A
Other Requirements applied	
Methodology (ies) applied and version number	AMS-I-E: Switch from non-renewable biomass for thermal applications by the user (Version 13.0)
Product Requirements applied	<input type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> N/A
VPA Cycle:	<input type="checkbox"/> Regular <input checked="" type="checkbox"/> Retroactive

Table 1 – Estimated Sustainable Development Contributions

SUSTAINABLE DEVELOPMENT GOALS TARGETED	SDG IMPACT (DEFINED IN B.6.)	ESTIMATED ANNUAL AVERAGE	UNITS OR PRODUCTS
13 Climate Action (mandatory)	Reduction in GHGs emissions	65,106	tCO ₂ e
3 Good Health and Well Beings			
3.9.1 Mortality rate attributed to household and ambient air pollution	Reduction incidence of disease caused by air pollutants	100	%
3.9.1 Mortality rate attributed to household and ambient air pollution	Reduction incidence of disease caused by air pollutants	100	%
3.9.1 Mortality rate attributed to household and ambient air pollution	Reduction incidence of disease caused by air pollutants	100	%
3.9.1 Mortality rate attributed to household and ambient air pollution	Reduction incidence of disease caused by air pollutants	100	%
3.9.1 Mortality rate attributed to household and ambient air pollution	Reduction incidence of disease caused by air pollutants	100	%
3.9.1 Mortality rate attributed to household and ambient air pollution	Reduction incidence of disease caused by air pollutants	100	%

3.9.2 Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)	Substantially reduce the number of deaths and illness from hazardous chemicals and air water and soil pollution and contamination	100	%
3.9.3 Mortality rate attributed to unintentional poisoning	Substantially reduce the number of deaths and illness from hazardous chemicals and air water and soil pollution and contamination	100	%
7: Affordable and Clean Energy			
7.1.2 Proportion of population with primary reliance on clean fuels and technology	Ensure universal access to affordable, reliable and modern energy services	100	%
7.1.2 Proportion of population with primary reliance on clean fuels and technology	Ensure universal access to affordable, reliable and modern energy services	100	%

SECTION A. DESCRIPTION OF PROJECT

A.1. Purpose and general description of project

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Main objective of the Nepal Biogas Support Programme-PoA is to further develop and disseminate biogas digesters as a renewable energy solution in Nepal, while better addressing poverty, social inclusion and regional balance issues and at the same time ensuring sustainability of the sector. Under this, AEPC currently supports to implement up to 20,000 digesters for each CPA under this PoA, which assures to remain within the small scale threshold. Besides investment subsidy to user households, AEPC needs funding on program level to maintain its activities. Target group under the PoA/CPA are households with at least one head of cattle (generally cows or buffalos) who currently use non-renewable biomass (firewood) for cooking purpose. The baseline of the PoA considers only non-renewable biomass replaced through household biogas applications. Only households previously using non-renewable biomass are eligible to the PoA.

This CDM Program Activity (CPA) is part of the Nepal Biogas Support Program-Programme of Activity (PoA). Initially, this CPA included 20,000 digesters which were implemented between 22 June 2007 and 18 March 2009. For this crediting period, number of digester included in the CPA is 19,999.¹ Table 1 provides an overview of the digesters according to their size and location.

Table 2: Digesters listed in this CPA.

Size \ Region	Terai	Hill	Mountain Remote Hill or	Total
4 m ³	1584	1,511	16	3,111
6 m ³	7798	7,726	93	15,617
8 m ³	628	628	7	1263
10 m ³	1	7	0	8
Total	10,011	9,872	116	19,999

¹ During the first crediting period, one biogas of 6 cu m capacity in Ilam district was found abandoned during monitoring. So, the biogas is removed from CPA list.

A complete list of all digesters included in this CPA can be found in a table attached separately.

A.1.1. Eligibility of the VPA under approved PoA

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The CPA is eligible for the inclusion and renewal of crediting period in the PoA for Nepal Biogas Support Program-PoA since it meets all the criteria listed in the eligibility criteria for inclusion of a CPA in the PoA as given in registered PoA-DD as under.

Table 3 Eligibility for VPA inclusion as per PoA requirements

NO.	ELIGIBILITY CRITERION	DESCRIPTION/ REQUIRED CONDITION	DESCRIPTION OF THE VPA IN RELATION TO THE CRITERIA, MEANS OF VERIFICATION AND SUPPORTING EVIDENCE FOR INCLUSION
1	Geographical boundary	-All biogas digesters in the CPA are located within the geographical boundaries of Nepal. - This will be confirmed by the CME by ensuring that each individual installation is a) located at an address that lies within the geographical boundaries of Nepal as demonstrated by providing the address of all biogas digesters in the CPA database; and b) has GPS coordinates that are situated within the geographical boundaries of Nepal.	- Commissioning Report from Biogas Companies (BC). - CPA Database indicating digester code, address and GPS coordinate.
2	Double counting	- Double counting is avoided by assuring that no digester is already included to a different CDM project or CPA. - This will be confirmed by the CME based on a) the digester codes listed in the BSP database and b) if necessary also GPS coordinates (the latter applies if biogas projects emerge under the CDM that are not part of the BSP).	- CPA Database indicating digester code, address and GPS coordinate. - Unique GPS reading of each digester. - CDM website indicating potential further projects not included to BSP using the same technology.

3	Technology	<ul style="list-style-type: none"> - AEPC will implement all CPAs as part of the BSP. - All digesters listed in the CPA shall be household biogas digesters with a sludge and gas holding capacity range of 2-10 m3. - Biogas shall be supplied to a stove with a maximum capacity of 400 l/h leading to a maximum annual gas capacity of not more than 1.86 kWth per stove. - The equipment shall be new and not transferred from other project activities. 	<ul style="list-style-type: none"> - Commissioning Report from Biogas Companies (BC). - Technical specification documents detailing digester models and equipment applied.
4	Start Date	<ul style="list-style-type: none"> - The start date of a CPA is the date of commissioning of the first biogas digester included to that respective CPA. - The start date of CPA 1 shall be 22 June 2007, which is the date of commissioning of the first digester in CPA 1. - The start of each future CPA shall be after the date of commissioning of the last installation included to a previous CPA. - The date of commissioning is recorded in the Commissioning Report, which is archived and the date recorded in the CPA database. 	<ul style="list-style-type: none"> - Commissioning Report from Biogas Companies (BC), indicating the commissioning date. - CPA Database
5	Compliance with applied methodology	<ul style="list-style-type: none"> - The activity shall replace non renewable biomass. This will be confirmed through documenting that participating households use non-renewable biomass as firewood. 	<ul style="list-style-type: none"> - Report confirming use of non-renewable biomass as firewood prior to installation of digesters (e.g. BUS)
6	Diversion of official development assistance	<ul style="list-style-type: none"> - The CPA shall not result into the diversion of official development assistance. 	<ul style="list-style-type: none"> - Declaration from CPA implementer / AEPC. - Confirmation of ODA non diversion, as applicable.
7	Target Group and distribution mechanism	<ul style="list-style-type: none"> - The target group within the CPA are households. 	<ul style="list-style-type: none"> - Installation confirmation from Biogas Companies (BC) indicating that the digesters are installed in a household.

8	Threshold check	- Number of biogas digester included in each CPA shall not exceed 20,000 units, which assures compliance with the small scale limit of 45MWth. ²	- BSP/AEPC database to confirm the number of digesters in a CPA is maximum 20,000.
9	Other Voluntary action	- Each CPA to be included in this PoA should be a voluntary action and not mandated by the Government of Nepal	- Confirmation that each CPA is a voluntary action not mandated by the Government of Nepal

All other criteria for the eligibility given in PoA-DD such as safeguarding principles and the SDG outcomes is in-line with the PoA.

A.1.2. Legal ownership of products generated by the VPA and legal rights to alter use of resources required to service the project

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The technology used in this PoA is the household level biogas plants and the owner of the technology is the particular household using biogas plants. The owners of a digester signed an agreement with AEPC by transferring all legal rights, interests, credits, entitlements, benefits or allowances arising from or in connection with any greenhouse gas emissions reductions arising from the operation of the digester (Emission Reduction), and agrees to take all necessary action required to ensure the transfer of those Emission Reductions to the Alternative Energy Promotion Centre or its nominee, including executing any relevant documents. So, the ownership of the products that are generated under Gold Standard Certification is under Alternative Energy Promotion Centre.

A.2. Location of VPA

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The digesters in this CPA are located at various locations across Nepal. The geographical coordinates of Nepal are:

Latitude – North 26.20 degree to North 30.45 degree

Longitude – East 80.07 degree to East 88.20 degree

² Estimated maximum capacity of 1.86 kWth per stove. Considering that the limit for SSC is 45 MWth, the maximum number of digesters allowed under a CPA (20,000) remains well below the SSC threshold.

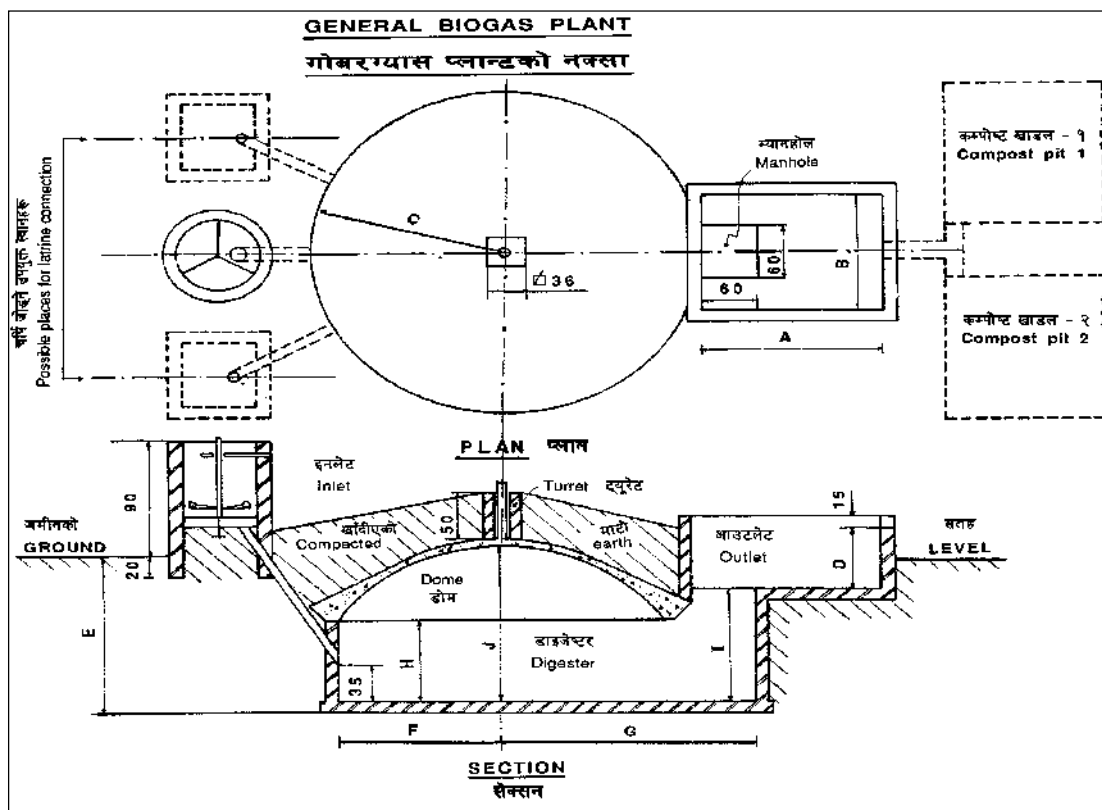
The CPA database contains the following information for each digester: owner's name, spouse name, VDC/NP, ward number or cluster, district, region, plant size, name of Installation Company, digester code and the commissioning date.

A.3. Technologies and/or measures

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The technologies used in this CPA are household biogas digesters with a sludge and gas holding capacity range of up to 10 m³. The different sizes of the digesters that would be included in the programme would be of 4, 6, 8 and 10 m³. The programmes uses only one design i.e. GGC 2047 model. The biogas digesters are based on a uniform technical design and are manufactured and installed following established technical standards in Nepal. The digester itself is a closed underground container made of concrete or other materials. The design of the digester is mentioned below:

Figure 1: Biogas Model GGC 2047



The GGC 2047 biogas digester consists of five main structures or components. They are the inlet, outlet, digester, dome and the compost pits. The required quantity of dung and water is mixed in the inlet tank and this mix in the form of slurry is allowed to be digested inside the digester. The gas produced in the digester is collected in the dome, called as the gas holder. The digested slurry flows to the outlet tank from

the digester through the manhole. The slurry then flows through the overflow opening to the compost pit where it is collected and composted. The gas is supplied to the point of application through the pipeline.

A.4. Scale of the VPA

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The proposed small scale CPA is not a de-bundled component of a large CDM project. Each of the independent subsystems (bio digesters) included in the CPA is not greater than 1% of the threshold defined for a small scale project³. 1% of the 15 MW_{el} (45MW_{th}) threshold for type I projects is 150 kW_{el} (450kW_{th}). The capacity of a digester is 1.86 kW_{th} and hence remains well below the 1% of 15 MW threshold.

A.5. Funding sources of VPA

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The digesters listed in the CPA received subsidies and technical support under the BSP program. The BSP program is funded by the entities listed below. These include:

- German Development Bank KfW,
- Directorate General for International Cooperation (DGIS) of the government of the Netherlands through the Dutch development organisation SNV,
- Government of Nepal (GoN).

³ Guidelines on Assessment of Debundling for SSC Project Activities – Version 03, (EB 54, Annex 13)

SECTION B. APPLICATION OF APPROVED GOLD STANDARD METHODOLOGY (IES) AND/OR DEMONSTRATION OF SDG CONTRIBUTIONS

B.1. Reference of approved methodology (ies)

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Title: Switch from non-renewable biomass for thermal applications by the user (AMS I.E. version 13)

Reference:

<https://cdm.unfccc.int/UserManagement/FileStorage/KT73R82ES91H0AMD4N5XGVQFZPUWLI>

B.2. Applicability of methodology (ies)

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The Nepal Biogas Support Programme-CPA-1 meets the applicability criteria of AMS-I.E (version 09) as follows:

Criteria AMS-I.E.	Explanation
Small-Scale project requirement: For biomass, biofuel and biogas project activities, the maximal limit of 15MW(e) is equivalent to 45 MW thermal output of the equipment or the plant (e.g. boilers). For thermal applications of biomass, biofuels or biogas (e.g. the cookstoves), the limit of 45 MW _{th} is the installed/rated capacity of the thermal application equipment or device/s (e.g. biogas stoves).	The biogas capacity of each stove is 400 litre/hour. With a methane content of 52%, this gives an annual natural gas capacity of not more than 1.86 kW _{th} per stove (validated during registration). This means that around 24,000 stoves would still have an aggregated capacity below the 45MW _{th} small scale threshold value, however the CPA will be limited to 20000 installations only.
This category comprises activities to displace the use of non-renewable biomass by introducing renewable energy technologies. Examples of these technologies include but are not limited to biogas stoves, solar cookers, passive solar homes, renewable energy based drinking water treatment technologies (e.g. sand filters followed by	The digesters are indeed “small thermal appliances that displace the use of non-renewable biomass by introducing new renewable energy end-user technologies”. AMS-I.E. even lists biogas stoves as an example of eligible end user technologies.

solar water disinfection; water boiling using renewable biomass).	
Project participants are able to show that non-renewable biomass has been used since 31 December 1989, using survey methods or referring to published literature, official reports or statistics.	<p>The BUS conducted in 2018 demonstrated that the time needed to gather firewood, the price of firewood and the distance travelled to gather firewood is increasing at least since December 1989.</p> <p>In that survey the respondents were asked to provide averages for the time needed to gather firewood, the distance travelled and the price. The average of the estimates from all respondents, showed a clear increase on all three indicators.</p>

B.3. VPA boundary

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Source	GHGs Included?	Justification/Explanation
Emissions from NRB use for cooking	CO ₂ Included	Major Emission
	CH ₄ Not Included	Conservative
	N ₂ O Not Included	Conservative
Emissions from fossil fuel use for cooking	CO ₂ Not Included	Conservative
	CH ₄ Not Included	Conservative
	N ₂ O Not Included	Conservative
...	...	
...	...	
...	...	
...	...	
Digester and Biogas cooking stove	CO ₂ Not Included	Negligible
	CH ₄ Not Included	Negligible
	CH ₄	

	N ₂ O
	...
...	...
	...
	...

B.4. Establishment and description of baseline scenario

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The baseline scenario has been determined at the PoA level. The baseline scenario is continued use of NRB i.e. firewood for cooking. Research indicates that use of firewood has a low sensitivity to economic determinants.

For the second crediting period, the Methodological tool “Assessment of validity of the original/current baseline and update of the baseline at the renewal of a crediting period” Version 03.0.1 (EB 66, Annex 47) is used to assess the continued validity of the original baseline. This tool provides a stepwise procedure to assess the continued validity of the baseline and to update the baseline at the renewal of a crediting period. For detail, please refer section I.5 of the registered CDM PoA-DD.

B.5. Demonstration of additionality

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Specify the methodology, activity requirement or product requirement that establishes deemed additionality for the proposed project (including the version number and the specific paragraph, if applicable).

Guidelines on the demonstration of additionality of small scale project activities” (version 09) EB 68 Annex 27.

Describe how the proposed VPA meets the criteria for deemed additionality.

The paragraph 2 of this guideline states that, "Documentation of barriers, as per paragraph 1 above is not required for the positive list of technologies and project activity types that are defined as automatically additional for project sizes up to and including the small-scale CDM

thresholds (e.g. installed capacity up to 15 MW)”

The sub-section 2 (c) of paragraph states that, "Project activities solely composed of isolated units where the users of the technology/measure are households or communities or Small and Medium Enterprises (SMEs) and where the size of each unit is no larger than 5% of the small-scale CDM thresholds."

Each unit of biogas digester has the capacity of not more than 1.86 kWth which is less than 5% of the small-scale CDM threshold, or 750 kW installed capacity. The PoA is thus additional and there is no need for further assessment and demonstration of additionality.

B.5.1. Prior Consideration

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NA

B.5.2. Ongoing Financial Need

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NA

B.6. Sustainable Development Goals (SDG) outcomes

Relevant Target/Indicator for each of the three SDGs

SUSTAINABLE DEVELOPMENT GOALS TARGETED	MOST RELEVANT SDG TARGET	SDG IMPACT
		INDICATOR (PROPOSED OR SDG INDICATOR)
13 Climate Action (mandatory)	Amount of GHGs emissions avoided	Reduction in GHGs emissions

3 Good Health and Well Beings

3.9.1 Mortality rate attributed to household and ambient air pollution	Average annual consumption of woody biomass per household in the pre-project devices during the project activity	Reduction incidence of disease caused by air pollutants
3.9.1 Mortality rate attributed to household and ambient air pollution	Quantity of woody biomass that is substituted or displaced	Reduction incidence of disease caused by air pollutants
3.9.1 Mortality rate attributed to household and ambient air pollution	Net calorific value of the non-renewable biomass that is substituted	Reduction incidence of disease caused by air pollutants
3.9.1 Mortality rate attributed to household and ambient air pollution	Users' perception on reduction in indoor air pollution	Reduction incidence of disease caused by air pollutants
3.9.1 Mortality rate attributed to household and ambient air pollution	Users' perception on reduction in health problem	Reduction incidence of disease caused by air pollutants
3.9.1 Mortality rate attributed to household and ambient air pollution	User's perception in Time saving for the cooking (reduce exposure to indoor air pollution)	Reduction incidence of disease caused by air pollutants
3.9.2 Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)	Users' perception on connection of toilet to biogas	Substantially reduce the number of deaths and illness from hazardous chemicals and air water and soil pollution and contamination
3.9.3 Mortality rate attributed to unintentional poisoning	Users perception in reduction of chemical fertilizers (use of Farmyard manure, Bio-slurry, Urea, DAP and Potash)	Substantially reduce the number of deaths and illness from hazardous chemicals and air water and soil pollution and contamination

7: Affordable and Clean Energy

7.1.2 Proportion of population with primary reliance on clean fuels and technology	Users' perception on time saving due to project for firewood collection (For men, women and children)	Ensure universal access to affordable, reliable and modern energy services
7.1.2 Proportion of population with primary reliance on clean fuels and technology	Number of people trained to promote Biogas plants	Ensure universal access to affordable, reliable and modern energy services

B.6.1. Explanation of methodological choices/approaches for estimating the SDG Impact

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$$BE_y = B_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossil_fuel} \quad 1$$

In which:

- BE_y Baseline Emissions during the year y (tCO₂e)
- B_y Quantity of woody biomass that is substituted or displaced in tonnes
- f_{NRB,y} Fraction of woody biomass used in the absence of the project activity in year y that can be established as non renewable biomass
- NCV_{biomass} Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel: 0.0156 TJ/tonne. The value is according to the methodology AMS I.E.
- EF_{projected.fossilfuel} Emission factor for substitution of non renewable woody biomass by similar consumers. Use a value of 63.7 tCO₂/TJ⁴

Following option a) of paragraph 21, B_y is “Calculated as the product of the number of households multiplied by the estimate of average annual consumption of woody biomass per household that is displaced by the project activity (tonnes/household/year)”.

Thus, B_y will be calculated as follows:

⁴ This value represents the emission factor of the substitution fuels likely to be used by similar users, on a weighted average basis. The value is calculated, based on the global average ratio of cooking fuels (the normalized ratio of kerosene and liquefied petroleum gas (LPG) excluding coal), i.e. 9 per cent for kerosene (71.5 t CO₂/TJ) and 91 per cent for LPG (63.0 t CO₂/TJ).

$$B_y = N_{HH} \times (BC_{BL,HH,y} - BC_{PJ,HH,y}) \quad \text{Equation (2)}$$

Where:

- N_{HH} = Number of households in the project activity, number
- $BC_{BL,HH,y}$ = Average annual consumption of woody biomass per household before the start of the project activity, tonnes/household/year
- $BC_{PJ,HH,y}$ = If it is found that pre-project devices were not completely displaced but continue to be used to some extent, average annual consumption of woody biomass per household in the pre-project devices during the project activity, tonnes/household/year

B_y will be calculated multiplying with the actual household of this CPA that have operational digester in year y identified through survey method. Calculations will be carried out based on Excel spread sheets using the database of CPA that are already included. The database provides e.g. commissioning date.

Project Emissions

The AMS I.E Version 9 requires calculation of project emission using “TOOL16: Project and leakage emissions from biomass”. As the fuelwood are basically sourced from the nearby and natural forest, which does not require processing of the feedstock and also does not include the cultivation, the project emissions (PE_y) is not applicable to this CPA and is taken as zero.

Leakage

As per para 24 of the AMS I.E version 9, the default factor of 0.95 is used to account for any potential leakage (i.e. B_y is multiplied by a net to gross adjustment factor of 0.95 to account for leakages).

Thus the leakage emission under a CPA is calculated as the following:

$$LE_y = 0.05 \times B_y \cdot f_{NRB,y} \cdot NCV_{biomass} \cdot EF_{projected_fossilfuel} \quad 3$$

Emission Reductions

As the methodology AMS IE version 09, para 27, the emission reductions are to be estimated based on the following equation:

$$ER_y = BE_y - PE_y - LE_y$$

Where:

- ER_y = Emission reductions in year y , tonnes CO₂eq

B.6.2. Data and parameters fixed ex ante

SDG13

Data/parameter

B_y

Unit	tons/year
Description	Quantity of woody biomass that is substituted or displaced
Source of data	The quantity of woody biomass substituted or displaced per household is estimated from the survey method for similar biogas project activities
Value(s) applied	$(BC_{BL,HH,y} - BC_{PJ,HH,y}) = 4.5$ tons/household/year and will be calculated for each CPA by multiplying with the actual number of household having operational biogas for the year y. $B_y = (19,999 \times \text{operational status in year } y \times 4.5)$ tons/year
Choice of data or Measurement methods and procedures	The methodology allow to fix it ex-ante and calculate it as the product of the number of households multiplied by the estimate of average annual consumption of woody biomass per household displaced by the project activity (tonnes/household/year);
Purpose of data	Calculation of baseline emission
Additional comment	As the value 4.5 tons/household/year is calculated as conservative value from the Biogas User Survey of similar activities and will not be changed significantly, this parameter (4.5 tons/household/year) shall remain fixed for the crediting period and B_y will be calculated multiplying with the actual household of CPA that have operational digester in year y.

3.9.1 Mortality rate attributed to household and ambient air pollution

Data/parameter	$f_{NRB,y}$
Unit	%
Description	Fraction of woody biomass saved by the project activity during year y that can be established as non-renewable biomass
Source of data	Calculated as per "TOOL30: Calculation of the fraction of non-renewable biomass"
Value(s) applied	86.1%
Choice of data or Measurement methods and procedures	The value is calculated as 86.1% using the national statistics and also validated by the Ministry of Forest and Environment, Government of Nepal. This value is for the national level, so will not be monitored.
Purpose of data	Calculation of baseline emission

Additional comment	This parameter shall remain fixed for the crediting period.
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13.1.1 Number of countries that have communicated the establishment or operationalization of an integrated policy/strategy/plan which increases their ability to adapt to the adverse impacts of climate change, and foster climate resilience and low greenhouse gas emissions development in a manner that does not threaten food production (including a national adaptation plan, nationally determined contribution, national communication, biennial update report or other)

Data/parameter	$EF_{\text{projected_fossil fuel}}$
Unit	tCO ₂ /TJ
Description	Emission factor for the projected fossil fuel consumption in the baseline.
Source of data	Approved small scale methodology AMS.I.E (version 09)
Value(s) applied	63.7
Choice of data or Measurement methods and procedures	AMS-I.E. requires using this value.
Purpose of data	Emission Reduction calculation
Additional comment	NA

7.1.2 Proportion of population with primary reliance on clean fuels and technology

Data/parameter	N_{HH}
Unit	Numbers
Description	Number of households in each CPA in year y
Source of data	BSP database for the CPA
Value(s) applied	19,999 digesters
Choice of data or Measurement methods and procedures	The registration procedure of the BSP database avoids double counting of digesters and the registration of digesters that have not been commissioned.

Purpose of data	Calculation of baseline emission
Additional comment	During calculation of Emission Reduction, it will be based on actual number of households having the biogas operational

B.6.3. Ex ante estimation of SDG Impact

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The emission reduction calculation is based on data that is specified to digester size and region. This section provides explanation of calculation made.

Baseline Emission

According to AMS-I.E (version 09), the baseline emission under a CPA are calculated as the following:

$$BE_y = B_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossil_fuel}$$

In which:

- BE_y Baseline Emissions during the year y (tCO₂e)
- B_y Quantity of woody biomass that is substituted or displaced in tonnes
- f_{NRB,y} Fraction of woody biomass used in the absence of the project activity in year y that can be established as non renewable biomass, Use 86.1%⁵
- NCV_{biomass} Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel: 0.0156 TJ/tonne). The value is according to the methodology AMS I.E.
- EF_{projected.fossilfuel} Emission factor for substitution of non renewable woody biomass by similar consumers. Use a value of 63.7 tCO₂/TJ⁶

Thus, B_y will be calculated as follows:

By is calculated as using the following values

⁵ The value is calculated using "TOOL 30: Calculation of the fraction of non-renewable biomass" as given in section I.6.1 of PoA-DD and the value is fixed ex-ante. Use 86.1%

⁶ This value represents the emission factor of the substitution fuels likely to be used by similar users, on a weighted average basis. The value is calculated, based on the global average ratio of cooking fuels (the normalized ratio of kerosene and liquefied petroleum gas (LPG) excluding coal), i.e. 9 per cent for kerosene (71.5 t CO₂/TJ) and 91 per cent for LPG (63.0 t CO₂/TJ).

N_{HH}	19,999 in CPA-1
Displacement of Woody Biomass ($BC_{BL,HH,y} - BC_{PJ,HH,y}$)	4.50 tonne/household/year ⁷
Operational status of Biogas	89% ⁸
Number of Household with operational digester	$N_{HH} * \text{Operational status of Biogas}$

$$B_y = 19,999 * 0.89 * 4.5 = 80,096 \text{ tonne/year}$$

Substituting the values,

$$\text{Baseline Emission } (BE_y) = 80096 * 0.861 * 0.0156 * 63.7 = 68,529.57 \text{ tCO}_{2e}$$

Project Emissions

$$PE_y = 0$$

Leakage

The default factor of 0.95 is used to account for any potential leakage, as prescribed by the methodology.

Thus the leakage emission under a CPA is calculated as the following:

$$LE_y = 0.05 * 80096 * 0.861 * 0.0156 * 63.7 = 3426.48 \text{ tCO}_{2e}$$

Emission Reductions

As the methodology AMS IE version 09, para 27, the ex-ante emission reduction is estimated as below:

$$\begin{aligned} ER_y &= BE_y - PE_y - LE_y \\ &= 68529.57 - 0 - 3426.48 \\ &= 65103 \text{ tCO}_{2e} \text{ (round down value).} \end{aligned}$$

Please refer ER calculation spreadsheet for further details of the calculation.

⁷ Conservative value taken as stipulated in section I.6.1 of this PoA DD and is fixed ex-ante.

⁸ For ex ante, operational status of the CPA-1 in 2018 identified from biogas user survey has been used. The actual operational status will be arrived using sample survey for ex-post and may vary (higher or lower) for the CPA.

B.6.4. Summary of ex ante estimates of each SDG outcome

YEAR	BASELINE ESTIMATE	PROJECT ESTIMATE	NET BENEFIT
22/02/2019 - 22/021/2020	68,532	3,426	65,106
22/02/2020 - 22/021/2021	68,532	3,426	65,106
22/02/2021 - 22/021/2022	68,532	3,426	65,106
22/02/2022 - 22/021/2023	68,532	3,426	65,106
22/02/2023 - 22/021/2024	68,532	3,426	65,106
Year n (delete if N/A)			
Total	342,660	17,130	325,530
Total number of crediting years	5		
Annual average over the crediting period	68,532	3,426	65,106

B.7. Monitoring plan

B.7.1. Data and parameters to be monitored

SDG 7

7.1.2 Proportion of population with primary reliance on clean fuels and technology

Data / Parameter	P
Unit	%
Description	The share of digesters operational
Source of data	User Survey Report
Value(s) applied	Calculated
Measurement methods and procedures	Ratio calculated as number of digesters found to be operating from the total number of digesters surveyed
Monitoring frequency	at least biennial (Recording)
QA/QC procedures	The Internal Quality Control system samples 5% of the digesters that are newly implemented, 2.5% of the digesters that are two year in operation and 2.5% of the digesters that have been operational for three years as part of the Internal Quality Control System. For the

	purpose of the current monitoring period, Biogas Users' Survey has been taken as the means to check the operational status of the biogas digester as the user survey gives the conservative value. The reliability check is done for each CPA in the BUS survey reports and the margin of error less than 10%.
Purpose of data	ER Calculation
Additional comment	Requirements as defined in the sampling plan was met.

7.1.2 Proportion of population with primary reliance on clean fuels and technology

Data / Parameter	Time saving (Fuel wood collection)
Unit	Qualitative
Description	Users' perception on time saving due to project for firewood collection
Source of data	User Survey Report
Value(s) applied	Percentage of Reduction in time for firewood collection (perception)
Measurement methods and procedures	Calculated as % of users perceived the reduction in cooking time for men, women and children after installation of biogas.
Monitoring frequency	at least biennial (Recording)
QA/QC procedures	The selection of households under the surveys ensured that the percentages of household in different strata are met for each individual CPA included in the PoA
Purpose of data	Sustainable Development Assessment.
Additional comment	Requirements as defined in the sampling plan was met.

SDG 3

3.9.1 Mortality rate attributed to household and ambient air pollution

Data / Parameter	Users' perception on reduction in indoor air pollution
Unit	Qualitative
Description	Users' perception on reduction in indoor air pollution
Source of data	User Survey Report
Value(s) applied	Percent of perceived reduction in indoor air pollution

3.9.1 Mortality rate attributed to household and ambient air pollution

Measurement methods Data / Parameter	calculated as % of users perceived the reduction (Reduce Reduction in health problem
Unit	Qualitative
Description	Users' perception on reduction in health problem
Source of data	User Survey Report
Value(s) applied	Percentage of HH perceived reduction in health problem
Measurement methods and procedures	Calculated as % of users perceived the reduction of different health problem caused by indoor air pollution after installation of biogas.
Monitoring frequency	at least biennial (Recording)
QA/QC procedures	The selection of households under the surveys ensures that the percentages of household in different strata are met for each individual CPA included in the PoA
Purpose of data	Sustainable Development Assessment.
Additional comment	Requirements as defined in the sampling plan was met.

3.9.1 Mortality rate attributed to household and ambient air pollution

Data / Parameter	User's perception in Time saving for the cooking (reduce exposure to indoor air pollution)
Unit	Qualitative
Description	Users' perception on time saving for cooking due to project.
Source of data	User Survey Report
Value(s) applied	Percentage of HH perceived reduction in cooking time
Measurement methods and procedures	Calculated as % of users perceived the reduction in cooking time
Monitoring frequency	at least biennial (Recording)
QA/QC procedures	The selection of households under the surveys ensured that the percentages of household in different strata are met for each individual CPA included in the PoA
Purpose of data	Sustainable Development Assessment.
Additional comment	Requirements as defined in the sampling was met.

3.9.3 Mortality rate attributed to unintentional poisoning

Data / Parameter	Users perception in reduction of chemical fertilizers
Unit	Qualitative

Description	Users' perception on reduction in use of chemical fertilizers and use of bio-slurry
Source of data	User Survey Report
Value(s) applied	Percentage in Reduction in chemical fertilizer used and use of bio-slurry (Perception)
Measurement methods and procedures	Calculated as % use of the Bio-slurry and chemical fertilizers before and after biogas installation which is perceived by biogas users.
Monitoring frequency	at least biennial (Recording)
QA/QC procedures	The selection of households under the surveys ensured that the percentages of household in different strata are met for each individual CPA included in the PoA
Purpose of data	Sustainable Development Assessment.
Additional comment	Requirements as defined in the sampling plan was met.

3.9.2 Mortality rate attributed to unsafe water, unsafe sanitation and lack of hygiene (exposure to unsafe Water, Sanitation and Hygiene for All (WASH) services)

Data / Parameter	Improved access to sanitation services
Unit	Number
Description	Users' perception on connection of toilet to biogas
Source of data	User Survey Report
Value(s) applied	Percentage in connection of toilet with biogas
Measurement methods and procedures	Calculated as % of households connected the toilet to the biogas.
Monitoring frequency	at least biennial (Recording)
QA/QC procedures	The selection of households under the surveys ensured that the percentages of household in different strata are met for each individual CPA included in the PoA
Purpose of data	Sustainable Development Assessment.
Additional comment	Requirements as defined in the sampling plan was met.

7.1.2 Proportion of population with primary reliance on clean fuels and technology

Data / Parameter	Trainings to Masons
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Unit	Number of people trained to promote Biogas plants
Description	Masons involved in constructing the biogas plants received training on the proper installation of biogas digesters.
Source of data	Training Report
Value(s) applied	Since, all the biogas digesters are already implemented in all CPAs, the monitoring of the training to the masons who constructed the digesters for these CPAs are not applicable for monitoring of the CPAs. But the training to the mason was provided by AEPC/respective biogas companies etc to the biogas technician as and when required.
Measurement methods and procedures	number of masons trained during the monitoring period
Monitoring frequency	at least biennial (Recording)
QA/QC procedures	N/A
Purpose of data	Sustainable Development Assessment.
Additional comment	Requirements as defined in the sampling plan was met.

Safeguarding Principle 4.3.8

Data / Parameter	Impact on Crop Productivity
Unit	Qualitative
Description	Users' perception on Impact on crop productivity
Source of data	User Survey Report
Value(s) applied	Percentage of users perceived in increase in productivity due to bio-slurry use from Biogas
Measurement methods and procedures	Calculated as percentage of users perceived the increment in productivity by the use of bio-slurry from biogas
Monitoring frequency	at least biennial (Recording)
QA/QC procedures	The selection of households under the surveys ensured that the percentages of household in different strata are met for each individual CPA included in the PoA.
Purpose of data	Sustainable Development Assessment.
Additional comment	Requirements as defined in the sampling plan was met.

B.7.2. Sampling plan

>>

Internal monitoring activities as part of the overarching BSP programme

AEPC carries out thorough quality control activities to ensure that the biogas digesters are built according to set quality standards following the subsidy delivery mechanism and other set standard. This includes setting up random sampling, field visits, on the spot advice to biogas companies and biogas owners, collecting and analyzing data obtained through questionnaire during visits, adopting “rewards or punishment” system to biogas companies etc. Note that this quality control is carried out to ensure quality of the digesters but not necessarily to calculate the emission reductions.

Monitoring

1) Digester performance and average annual consumption of woody biomass

The performance of the bio-digesters and average annual consumption of woody biomass by project devices will be assessed based on the performance reports (Biogas User Survey). The corresponding survey may be conducted as part of the quality control procedures of AEPC.

A statistically representative sample will be surveyed individually for each CPA of the PoA. The Annual Biogas User Survey will be conducted following the Guidelines for Sampling and Surveys for CDM Project activities and Programme of Activities Ver. 4.0 (EB 86, Annex 4). As part of the survey, statistically representative sample of biogas users will be surveyed and in order to achieve 90% confidence interval and a 10% margin of error requirement for the sampled parameters. Stratified random sampling will be applied in conducting survey. The sample to be surveyed will be drawn randomly from the population of biogas digester distributed in each stratum (i.e. remote hill, hill and terai) spread within the project boundary of the PoA. To make it more representatives, different development regions and the size of the plants will also be considered while drawing the sample. In order to have an unbiased and independent assessment, the survey will be carried out through an independent agency to check the operation/functioning of the biogas units installed as part of each CPA.

Thus, the at least biennial performance reports (Biogas User Survey) will be used for the identification of the proportion of biogas digesters included in the CPAs that are operational. The proportion of biogas digesters that are operational will be counted towards the emission reduction for the CPAs while the proportion of the non-operational plants will not be considered towards ER calculation.

2) Displacement of NRB

The fraction of the Non-renewable biomass displaced by the PoA has been determined ex-ante in the PoA-DD and has been fixed for the second crediting period. The following indicators will be monitored through Biogas User Survey to confirm the displacement of NRB by households and perceptions of the biogas users on these indicators would be captured through survey and analysed. These indicators include:

- Trends in distance travelled for firewood gathering or trends in time needed for firewood gathering indicating depletion of resources available
- Trends in price of firewood indicating demand and scarcity
- Trends in type of cooking fuel collected that could indicate scarcity of fire wood

At least two of the above indicators should confirm the displacement of non-renewable biomass. The survey will seek to collect the data pertaining to the indicators for monitoring year.

3) Monitoring of other Sustainable Development Parameters

The monitoring of other sustainable development parameters will be done through the Biogas User Survey as mentioned above. The same sampled household will be used to assess those parameters along with the digesters performance and monitoring of continued displacement of NRB.

B.7.3. Other elements of monitoring plan

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The various aspects to be monitored according to the methodology are presented in the table below:

Aspects to be monitored according to Methodology	Applicability to the Project	Parameter to be Monitored (YES/NO/NA)
Monitoring shall consist of checking of all appliances or a representative sample thereof, at least once every two years (biennial) to ensure that they are still operating or are replaced by an equivalent in service appliance.	Emission reductions is directly proportional to the number of appliances (digesters in case of the project) still performing. So this needs to be monitored.	Yes (based on operation reports carried out at least biennial)
In order to assess the leakages, monitoring shall include data on the amount of woody biomass saved under the project activity that is used by non project households/users (who previously used renewable energy sources). Other data on nonrenewable woody biomass use required for leakage assessment shall also be collected	The methodology allows the use of a default factor of 0.95 to account for leakage. So this will not be monitored in the project.	No (Instead a default factor of 0.95 shall be used)
Monitoring should confirm the displacement or substitution of the non-renewable woody biomass at each location.	This shall be ensured by monitoring the number of appliances (digesters in case of the project) still performing	Yes (based on the performance reports carried out at least biennial, e.g. BUS, and in addition to eligibility criteria that also confirm use of NRB)

Sustainable development parameters and safeguarding principles to be assessed as per PoA DD	This shall be ensured by different parameters listed in B.7.2 above	Yes (Biogas User Survey Report conducted at least Biannual following the applicable sampling guideline for PoA)
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SECTION C. DURATION AND CREDITING PERIOD

C.1. Duration of project

C.1.1. Start date of VPA

>>

22/06/2007

The CPA started with the construction of the first digester listed which is 22/06/2007.

C.1.2. Expected operational lifetime of VPA

>>

The operational lifetime of each digester is 20 years.

C.2. Crediting period of project

C.2.1. Start date of crediting period

>>

C.2.2. Total length of crediting period

>>

This pertains to the crediting period start date for second crediting period as first crediting period of the CPA ends on 22/02/2024.

SECTION D. SUMMARY OF SAFEGUARDING PRINCIPLES AND GENDER SENSITIVE ASSESSMENT

D.1. Safeguarding Principles that will be monitored

A completed Safeguarding Principles Assessment is in [Appendix 1](#), ongoing monitoring is summarised below.

PRINCIPLES

MITIGATION MEASURES ADDED TO THE MONITORING PLAN

Principle x.y

D.2. Assessment that project complies with GS4GG Gender Sensitive requirements

Question 1 - Explain how the project reflects the key issues and requirements of Gender Sensitive design and implementation as outlined in the Gender Policy?

Question 2 - Explain how the project aligns with existing country policies, strategies and best practices

Question 3 - Is an Expert required for the Gender Safeguarding Principles & Requirements?

Question 4 - Is an Expert required to assist with Gender issues at the Stakeholder Consultation?

SECTION E. SUMMARY OF LOCAL STAKEHOLDER CONSULTATION

The below is a summary of the 2 step GS4GG Consultation for monitoring purposes. Please refer to the separate Stakeholder Consultation Report for a complete report on the initial consultation and stakeholder feedback round.

E.1. Summary of stakeholder mitigation measures

>>

Please refer to the section D.14 of the CDM-SSC-PoA-DD for the stakeholder consultation as per CDM requirement. The LSC for GS was conducted on PoA level. The detail of it is given in section E of the PoA Passport.

For the crediting period renewal of PoA, stakeholder feedback round was started on 6th May 2019. A public notice was published in AEPC's website to provide the feedback on PoA DD, Similarly, the notice and the related documents were also published in atmosfair gGmbH's website as well. For follow-up, an e-mail was also sent to the related stakeholders to provide the feedback on the documents.

During the stakeholder feedback round which was started on 6th May 2019 for two months, no comments/feedbacks were received for CPA-9.

E.2. Final continuous input / grievance mechanism

METHOD	INCLUDE ALL DETAILS OF CHOSEN METHOD (S) SO THAT THEY MAY BE UNDERSTOOD AND, WHERE RELEVANT, USED BY READERS.
Continuous Input / Grievance Expression Process Book (mandatory)	Grievance Registration and continuous input: Grievance section: www.aepc.gov.np Alternative Energy Promotion Centre (AEPC) Phone +9771-4498013, 4498014 Fax : +9771-5542397, 5539392
GS Contact (mandatory)	help@goldstandard.org

Nepal biogas promoters association Central Office
Kathmandu: Phone: 01- 5535116

Other

Nepal biogas promoters association regional offices:

1. Pokhara: Phone: 061-526785
2. Butwal: Phone: 071-551514
3. Itahari: Phone: 025-5817745
4. Nepalgunj: Phone: 081-528066
5. Dhangadi: Phone: 091- 527379
6. Chitwan: Phone: 056- 521749

SECTION F. Eligibility and inclusion criteria for VPAs inclusion

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Please refer section B.3 Eligibility for VPA inclusion as per PoA requirements

APPENDIX 1 - SAFEGUARDING PRINCIPLES ASSESSMENT

Complete the Assessment below and copy all Mitigation Measures for each Principle into [SECTION D](#) above. Please refer to the instructions in the [Guide to Completing](#) this Form below.

SOCIAL SAFEGUARDING PRINCIPLES		
Reference requirement	Question	Response
P.1 HUMAN RIGHTS		
P.1.1.1 	Does the project developer, its representatives and the Project disrespect internationally proclaimed human rights?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.1.1.1 	Is the project involved or complicit in violence or human rights abuses of any kind as defined in the Universal Declaration of Human Rights?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.1.1.2 	Have local communities or individuals raised human rights concerns regarding the project (e.g., during the stakeholder engagement process, grievance processes, public statements)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.1.1.3 	Is there a risk that rights-holders (e.g., Project-affected stakeholders) do not have the capacity to claim their rights?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.1.1.3 	Does this project undermine national or regional measures for the realization of the right to development?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<p>If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.</p>		
<p>Would the project potentially involve or lead to:</p>		
P.1.1.1 	adverse impacts on enjoyment of the human rights (civil, political, economic, social or cultural) of the affected population and particularly of marginalised groups?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.1.1.2 	inequitable or discriminatory impacts on affected populations, particularly people living in poverty or marginalised or excluded individuals or groups, including persons with disabilities?	<input type="checkbox"/> YES

		<input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.1.1.3	restrictions in availability, quality of and/or access to resources or basic services, in particular to marginalised individuals or groups, including persons with disabilities?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.1.1.3	exacerbation of conflicts among and/or the risk of violence to project-affected communities and individuals?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

Briefly describe below how the project incorporates a human rights-based approach.

For example, by describing how the project design:

- is informed by human rights analysis, including from UN human rights mechanisms (human rights treaty bodies, universal periodic review, special procedures)
- includes measures to assist the government to realise (respect, protect and fulfil) human rights under international law and to implement human rights-related standards in national law (whichever is higher)
- enhances the availability, accessibility and quality of benefits and services for potentially marginalised individuals and groups, and to increase their inclusion in decision-making processes that may impact them (consistent with the non-discrimination and equality human rights principle)
- provides reasonable accommodations to strengthen inclusivity and accessibility of project benefits and services to persons with disabilities.

a. The project doesn't involve any activity that affects human right but promotes the human rights to have access to clean energy and environment.
 Conclusion: the parameter will not be monitored.

b. The project shall not discriminate any people to have biogas plants rather it enhances the participation and inclusion.
 Conclusion: the parameter will not be monitored.

P.2 | GENDER EQUALITY AND WOMEN'S EMPOWERMENT

P.2.1.1	Have women's groups/leaders raised gender equality concerns regarding the project, (e.g., during the stakeholder engagement process, grievance processes, public statements)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.2	Does the project undermine the principles of non-discrimination, equal treatment, and equal pay for equal work?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

P.2.1.2 	Does the project prevent men and women from having equal opportunities to participate in identified tasks and activities, whether through paid work, volunteer work, or community contributions, as appropriate?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.2 	Does the project limit the participation of women or men based on pregnancy, maternity/paternity leave, or marital status?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.2 	Is information about project objectives being communicated in a way that is inappropriate for the local context and not tailored to the methods of understanding of both women and men, which could hinder their participation?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.3 	Has the project assessed gender risks without referencing the country's gender strategy or equivalent national commitment?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.2.1.4 	Has expert stakeholder(s) been involved, and has their input been requested for the project design on gender equality and women's empowerment?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.		
Would the project potentially involve or lead to:		
P.2.1.1 	adverse impacts on gender equality and/or the situation of women and girls?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.2.1.1 	exacerbation of risks of gender-based violence? For example, through the influx of workers to a community, changes in community and household power dynamics, increased exposure to unsafe public places and/or transport, etc.	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.2.1.2 	reproducing discriminations against women based on gender, especially regarding participation in design and implementation or access to opportunities and benefits?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.2.1.2 	limitations on women's ability to use, develop and protect natural resources, taking into account	<input type="checkbox"/> YES

	<p>different roles and positions of women and men in accessing environmental goods and services? For example, activities that could lead to natural resources degradation or depletion in communities who depend on these resources for their livelihoods and well-being.</p>	<p><input type="checkbox"/></p> <p>POTENTIALLY</p> <p><input checked="" type="checkbox"/> NO</p>
<p>Briefly describe below how the project is addressing any identified risk to gender equality and women’s empowerment.</p>		
<p>a) The project enhances the women’s access and entitlement of benefits. Since the women will be direct user of the Biogas stoves, it will benefit women by reducing their exposure to the indoor air pollution thereby improving their health. In addition, the replacement of firewood after the installation of Biogas will reduce workload of women for the collection of firewood. Reduced workload for firewood collection results in time saving that the women can use for other productive activities. Conclusion: the parameter will not be monitored</p> <p>b) The project will not adversely affect men and women in marginalized or vulnerable communities. Implementation of the project will contribute towards preservation of common resources in form of “firewood”. Households duties related to firewood collection, cooking and cleaning utensils remain with women. The project therefore tends to decrease burden on women and won’t result in social isolation of men. Conclusion: the parameter will not be monitored</p> <p>c) The project duly accounts the gender roles. Time saving is one of the key benefits from the project which the beneficiary can utilize to fulfill their gender roles. With the saved time, one can perform the respective gender role more effectively. Conclusion: the parameter will not be monitored</p> <p>d) The project shall make every effort to include landless people in its design. Benefits from the project is expected to culminate in form of creation of entrepreneurial opportunities. While the focus is on capacitating women to take advantage of the entrepreneurial opportunity, the project shall not deprive men from the families of minority groups or the landless people to take advantage of the capacity building activities. Conclusion: the parameter will not be monitored as the VPAs are implemented already</p> <p>e) No, the project is not designed such that it increased workload of women and their care responsibilities. By introducing Biogas, the overall performance of women in kitchen will be more efficient. This will enable them engage in other activities. Conclusion: the parameter will not be monitored</p> <p>f) The project will enhance social participation and decision making role of women. Moreover, the women are expected to develop entrepreneurial skills which will enable them economically to deal with the household problems. The potential of the project to enable women economically will help reduce discrimination against women rather than deepening it. Conclusion: The parameter will not be monitored</p>		

P.3 COMMUNITY HEALTH AND SAFETY		
P.3.1.1	Does the project involve potential risks to the health and safety of affected communities during its life cycle?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.3.1.2	Does the project involve any potential risks to the workers' safety and health?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If the answer to any of the questions above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.		
Please add text here....		
Would the project potentially involve or lead to:		
P.3.1.1	construction and/or infrastructure development (e.g., roads, buildings, dams)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.3.1.2	air pollution, noise, vibration, traffic, injuries, physical hazards, poor surface water quality due to runoff, erosion, sanitation?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.3.1.2	harm or losses due to failure of structural elements of the project (e.g., collapse of buildings or infrastructure)?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.3.1.2	risks of water-borne or other vector-borne diseases (e.g., temporary breeding habitats), communicable and noncommunicable diseases, nutritional disorders, mental health?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.3.1.2	transport, storage, and use and/or disposal of hazardous or dangerous materials (e.g., explosives, fuel and other chemicals during construction and operation)?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.3.1.2	adverse impacts on ecosystems and ecosystem services relevant to communities' health (e.g., food, surface water purification, natural buffers from flooding)?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

<p>Briefly describe below how the project is addressing any identified risk related to community health and safety.</p>		
<p>The Project shall make every effort to avoid health risks of worker during construction of biogas. Emission reduction and reduction on indoor air pollution is one of the key benefits of the project for community that will improve the health of those communities.</p> <p>Conclusion: Since the VPA is included already in CDM and all the biogas are constructed already, health risk of the worker will not be monitored but the emission reduction and improve in health condition will be monitored.</p>		
<p>P.4 CULTURAL HERITAGE, INDIGENOUS PEOPLE, DISPLACEMENT AND RESETTLEMENT</p>		
<p><u>P.4.1 Sites of Cultural and Historical Heritage</u></p>		
<p><u>P.4.1.1 </u></p>	<p>Does the project involve altering, damaging, or removing sites, objects, or structures of significant cultural heritage?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.</p>		
<p><i>Please add text here....</i></p>		
<p>Would the project potentially involve or lead to:</p>		
<p><u>P.4.1.1 </u></p>	<p>activities adjacent to or within a cultural heritage site?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><u>P.4.1.1 </u></p>	<p>significant excavations, demolitions, movement of earth, flooding or other environmental changes?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><u>P.4.1.1 </u></p>	<p>alterations to landscapes and natural features with cultural significance?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p><u>P.4.1.1 </u></p>	<p>adverse impacts to sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g., knowledge, innovations, practices)? (Note: projects</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>

	intended to protect and conserve Cultural Heritage may also have inadvertent adverse impacts)	
P.4.1.2 	utilisation of tangible and/or intangible forms (e.g., practices, traditional knowledge) of Cultural Heritage for commercial or other purposes?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.1.2 	If answer to question above is "YES" or "POTENTIALLY" - are the communities made aware of their right under the law, scope and nature of proposed development and its potential consequences?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.1.3 	If answer to question above is "YES" - does the project provide equitable sharing of benefits from commercialisation of such knowledge, innovation, or practice, consistent with their customs and traditions?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.1.4 	If answer to question above is "YES" - are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.1.4 	If answer to question above is "YES", has project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
The project units are simple and small in dimension. This will not involve anything related to removal of sites, objects or structures of cultural significance. Therefore the safeguarding principle under discussion will not be triggered by the project. Conclusion: the parameter will not be monitored		
P.4.2 Forced Eviction and Displacement		
P.4.2.1 	Does the project involve any risks related to involuntary relocation of people?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.		
Please add text here...		
Would the project potentially involve or lead to:		

<p>P.4.2.1</p>	<p>risk of forced evictions or involuntary relocation of people?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p>P.4.2.2</p>	<p>temporary or permanent and full or partial physical displacement (including people without legally recognisable claims to land)?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p>P.4.2.2</p>	<p>economic displacement (e.g., loss of assets or access to resources due to land acquisition or access restrictions – even in the absence of physical relocation)?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p>P.4.2.2</p>	<p>If answer to question above is “YES” or “POTENTIALLY”,</p> <ul style="list-style-type: none"> - has the project developed Resettlement Action Plan or Livelihood Action Plan in consultation and agreement with affected individual, group or community? - has the project integrated Resettlement Action Plan or Livelihood Action Plan into the Project design? 	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>P.4.2.3</p>	<p>If answer to question above is “YES” - are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>P.4.2.3</p>	<p>If answer to question above is “YES”, have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p>The project units are simple and small in dimension. This will not involve anything related to removal of sites, objects or structures of cultural significance. Therefore the safeguarding principle under discussion will not be triggered by the project. Conclusion: the parameter will not be monitored.</p>		
<p>P.4.3 LAND TENURE AND OTHER RIGHTS</p>		

P.4.3.1	Does the project involve any risks related to identifying and managing legitimate tenure rights that may be affected by the project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If the answer to question above is "yes," please explain the reason and how the project will ensure compliance with applicable requirements.		
Please add text here....		
Would the project potentially involve or lead to:		
P.4.3.1	impacts on or changes to land tenure arrangements and/or community-based property rights/customary rights to land, territories and/or resources?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.3.1	uncertainties with regards to land tenure, access rights, usage rights or land ownership? Examples include, but are not limited to water access rights, community-based property rights and customary rights.	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.3.2	Changes in legal arrangements, if yes, are the changes done in line with relevant laws and regulations?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.2	Changes in legal arrangements, if yes, are these changes agree with free, prior and informed consent of the involved stakeholders?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.3	Does some other entity (other than the project developer) hold uncontested land title for the entire Project Boundary?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.4	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.4	If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.3.5	Have project developer in consultation with stakeholders established a functioning mechanism to	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

	receive, process, resolve, communicate and record grievances?	
<p>If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p>The project units are simple and small in dimension. This will not involve anything related to removal of sites, objects or structures of cultural significance. Therefore the safeguarding principle under discussion will not be triggered by the project. Conclusion: the parameter will not be monitored</p>		
<p><u>P.4.4 INDIGENOUS PEOPLES</u></p>		
<u>P.4.4.1 </u>	Does the project involve Indigenous People within the Project area of influence who may be affected directly or indirectly by the Project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<p>If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p><i>Please add text here....</i></p>		
<p>Would the project potentially involve or lead to:</p>		
<u>P.4.4.1 </u>	affect areas where indigenous peoples are present (including project area of influence)	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
<u>P.4.4.1 </u>	affect areas, land and territory claimed by indigenous peoples?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
<u>P.4.4.1 </u>	impacts (positive or negative) to the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
<u>P.4.4.7 </u>	If answer to above questions is "YES" or "POTENTIALLY", - Is it determined that the proposed project may affect the rights, lands, resources, or territories of indigenous people?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

	<ul style="list-style-type: none"> - Has an "Indigenous People Plan" (IPP) or "Indigenous People Plan Framework" been elaborated and included in the project documentation? - Was the plan developed in accordance with the effective and meaningful participation of indigenous peoples and in accordance with UNDP Guidelines? 	
P.4.4.3	<p>risk of forcibly removing indigenous people from their lands and territories?</p>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.4.4	<p>utilisation and/or commercial development of natural resources on lands and territories claimed by indigenous peoples? Consider, and where appropriate ensure, consistency with the answers under Principle 4.1 above</p>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.4.4.5	<p>If answer to question above is "YES" or "POTENTIALLY"</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.4.4.6	<ul style="list-style-type: none"> - Did the project obtain free, prior and informed consent from indigenous people before taking their cultural, intellectual, religious, and/or spiritual property? - Does the project ensure that the indigenous people receive an equitable sharing of benefits resulting from the use of their traditional knowledge and practices? ? - Does the project ensure that the sharing of benefits resulting from the use of indigenous peoples' traditional knowledge and practices is culturally appropriate and inclusive? - Does the project ensure that the provision of equitable sharing of benefits does not impede land rights or equal access to basic services including health services, clean water, energy, education, safe and decent working conditions, and housing? 	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

<p>P.4.4.8</p>	<p>Does the project lack appropriate feedback and grievance channels for Indigenous Peoples and their representatives?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>P.4.4.8</p>	<p>Has a grievance mechanism not been established at the beginning of programme or project implementation with due consideration given to customary dispute settlement mechanisms among the Indigenous Peoples concerned and will it remain operational throughout the project cycle?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>P.4.4.9</p>	<p>Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>P.4.4.9</p>	<p>If answer to question above is "YES", have project design been changed, modified, updated considering opinions and recommendations of an Expert Stakeholder?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p>The project implementation is guided by the government's subsidy policy and dually followed the set quality standard. Quality assurance and quality control is an integral part of the project implementation ensuring the quality throughout the project cycle. Conclusion: The parameter will not be monitored.</p>		
<p>P.5 CORRUPTION</p>		
<p>P.5.1.1</p>	<p>Does the project involve, or is it complicit in, contributing to or reinforcing corruption or corrupt projects?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>P.5.1.1</p>	<p>Does the project have a risk of encouraging bribery, kickbacks, or other unethical behavior?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p>The project implementation is guided by the government's subsidy policy and dually followed the set quality standard. Quality assurance and quality control is an integral part of the project implementation ensuring the quality throughout the</p>		

project cycle.		
Conclusion: The parameter will not be monitored.		
ECONOMIC SAFEGUARDING PRINCIPLES		
P.6 ECONOMIC IMPACTS		
P.6.1 LABOUR RIGHTS AND WORKING CONDITIONS		
P.6.1.1 	Does the project involve, facilitate, or condone forced labor, or pose a potential risk of forced labor?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.1 	Does the project violate any labor or health and safety laws, international obligations, or ILO conventions?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.2 	Does the project violate the principles of equal opportunity and fair treatment in its employment decisions?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.3 	Does the project violate national laws, if available regarding non-discrimination in employment?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.4 P.6.1.5 	Does the project allow child labor?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.7 P.6.1.8 	Does the project have insufficient processes and measures in place to ensure the safety and health of project workers?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.9 	Does the project have insufficient measures to safeguard and support vulnerable project workers, such as women, people with disabilities, migrant workers, and young workers, and to prevent any kind of harassment, abuse, bullying, or exploitation, including gender-based violence (GBV)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.10 	Does the project have no grievance mechanism available for workers to voice workplace concerns? Is information about this mechanism not provided to workers at the time of recruitment, or is it not easily accessible?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
<i>Please add text here...</i>		
Would the project potentially involve or lead to: (NOTE: APPLIES TO BOTH PROJECT AND CONTRACTOR WORKERS)		
P.6.1.1 	use of forced labour?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY

		<input checked="" type="checkbox"/> NO
P.6.1.1 	working conditions that do not meet national labour laws and international commitments?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	working conditions that may deny freedom of association and collective bargaining?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	absence of documented working agreements with all individual workers <i>if such agreements do not exist, or do not address working conditions and terms of employment, the project developer shall provide reasonable working conditions and terms of employment.</i>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	use of migrant workers? <i>if engaged, the developer shall ensure that they are engaged substantially equivalent terms and conditions to non-migrant workers carrying out similar work.</i>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.1 	having no arrangements for basic services ⁹ for workers? <i>the project developer shall put in place and implement policies on the quality and management of</i>	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO

⁹ Basic services requirements refer to minimum space, supply of water, adequate sewage and garbage disposal system, appropriate protection against heat, cold, damp, noise, fire, and disease-carrying animals, adequate sanitary and washing facilities, ventilation, cooking and storage facilities and natural and artificial lighting, and in some cases basic medical services.

	<i>the accommodation and provision of basic services in a manner consistent with the principles of non-discrimination and equal opportunity. Workers' accommodation arrangements should not restrict workers' freedom of movement or of association</i>	
P.6.1.2 	any form of discrimination or harassment based on factors unrelated to job requirements, such as gender, race, nationality, ethnicity, social or indigenous origin, religion or belief, disability, age, or sexual orientation?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.2 	any form of discrimination in any aspect of employment, such as recruitment, compensation, working conditions, training, job assignment, promotion, termination, or discipline?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.2 	harassment, intimidation, and/or exploitation, especially in regard to women?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.3 	discriminatory working conditions and/or lack of equal opportunity where national law provides provision to address non-discrimination in employment?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.4 	use of child labour? (including third-party engaged workers)	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.6.1.4 	inadequate and verifiable mechanisms for age verification?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.7 	no processes and measures in place for the safety and health of project workers?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.7 	No provision of safety and health training provisions, including on the proper use and maintenance of	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

	personal protective equipment conducted by competent persons and the maintenance of training records?	
P.6.1.7 	No provision to record and document accidents, diseases, incidents, and any resulting injuries, illnesses, or deaths?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.8 	occupational health and safety risks due to physical, chemical, biological and psychosocial hazards (including violence and harassment) throughout the project life-cycle?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.9 	No measures to protect vulnerable project workers from harassment, exploitation, and gender-based violence (GBV)? This includes women, people with disabilities, migrant workers, and young workers.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.10 	No grievance mechanism available for workers to voice workplace concerns.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.1.11 	No measures for due diligence and the establishment of policies and procedures to manage and monitor the performance of third-party employees in the project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<p>If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p> <p><i>Please add text here....</i></p>		
<p>P.6.2 NEGATIVE ECONOMIC CONSEQUENCES</p>		
P.6.2.1 	Is there a risk of project failure during implementation or after project certification due to a lack of financial resources?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.6.2.2 	Does the project have potential negative impacts or pose a risk to the local economy?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

<p>P.6.2.2</p>	<p>Are there any potential risks or negative impacts this project may have on vulnerable or marginalised social groups, despite the benefits it may bring?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p>The project units are simple and have less moving parts. So, it requires less repair and maintenance. Hence the operational cost is less in comparison to the energy access and the additional benefits that it offers. So, the project implemented is sustainable financially and has positive economic impacts by offering the time saving, ease in cleaning the utensils, reducing health risk and indoor air pollution etc. This has no any negative economic impacts. Conclusion: the parameter will not be monitored</p>		
<p>Would the project involve or lead to:</p>		
<p>P.6.2.2</p>	<p>economic impacts (negative/detrimental) to the local economy?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p>P.6.2.2</p>	<p>negative economic consequences during and after project implementation, e.g., for vulnerable and marginalised social groups in targeted communities?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p>If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p><i>Please add text here...</i></p>		
<p>P.7 CLIMATE AND ENERGY</p>		
<p>P.7.1 GHG EMISSIONS</p>		
<p>P.7.1.1</p>	<p>Does the project have a risk of increasing greenhouse gas emissions over the Baseline Scenario?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p><i>Please add text here...</i></p>		

Would the project involve or lead to:		
P.7.1.1	increase greenhouse gas emissions over the Baseline Scenario?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
The project will replace the use of non-renewable biomass. The baseline of the project is the use of firewood for cooking. So, this project will reduce the GHG over the baseline scenario. Conclusion: The parameters will be calculated based on the operational status of the project units		
P.7.2 ENERGY SUPPLY		
P.7.2.1	Does the project pose a risk to the availability and reliability of energy supply to other users?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
Please add text here....		
Would the project involve or lead to:		
P.7.2.1	negative impact on the availability and reliability of energy supply to other users?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
The project will not use any fuel resources that provides for other local users. It uses the animal dung. Therefore the safeguarding principle under discussion will not be triggered by the project. Conclusion: the parameter will not be monitored		
P.8 WATER		
P.8.1 IMPACT ON NATURAL WATER PATTERNS/FLOWS		

P.8.1.1	Does the project increase water usage to a level that will not allow for the maintenance of environmental flows?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.8.1.1	Does the project result in the discharge of wastewater that does not meet the required standard for beneficial reuse and could therefore negatively impact the environmental flow?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.8.1.1	Does the project have the potential risk to exceed the rate of recharge for the groundwater source?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.8.1.1	Does the project involve any processes or activities that could contaminate the groundwater and render it unsuitable for use?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<p>If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p> <p>Please add text here....</p>		
<p>Would the project involve or lead to:</p>		
P.8.1.1	affect the natural or pre-existing pattern of watercourses, groundwater and/or the watershed(s) such as high seasonal flow variability, flooding potential, lack of aquatic connectivity or water scarcity?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.8.1.1	Wastewater discharge of quality that does not meet the required standard for beneficial reuse?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.8.1.1	significant extraction, diversion of ground water? For example, construction of dams, reservoirs, river basin developments, groundwater extraction	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.8.1.2	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

The project requires very less water to make the slurry that can be fetched at household level itself. Therefore the safeguarding principle under discussion will not be triggered by the project.
Conclusion: the parameter will not be monitored

P.8.2 | EROSION AND/OR WATER BODY INSTABILITY

P.8.2.1 	Does the project have a risk of negatively impacting the catchment and has it been assessed and addressed?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.8.2.2 -	negatively impact on the catchment area?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.8.2.5 	<i>If yes, Erosion prevention measures, including soil and slope protection measures, must be implemented before project commencement. These measures should involve natural terracing, infiltration strips, permanent ground cover, hedge and tree rows, and effective slope length assessment. Regular reassessment of these measures is necessary.</i>	
P.8.2.6 	Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

The project units are installed at household level which will not directly or indirectly cause additional erosion or disrupt the water body. Therefore the safeguarding principle under discussion will not be triggered by the project.
Conclusion: the parameter will not be monitored

P.9 ENVIRONMENT, ECOLOGY AND LAND USE		
P.9.1 LANDSCAPE MODIFICATION AND SOIL		
<p>P.9.1.1 -</p> <p>P.9.1.3 </p>	<p>Is there any risk of soil resource degradation or loss of ecosystem services provided by soils in the project?</p> <p><i>If yes, the project shall maintain healthy soils by minimising negative impacts on soil health, productivity, structure, and water retention. Steps to minimise soil degradation include crop rotation, composting, using N-fixing plants, and reducing tillage and ecologically harmful substances.</i></p>	<p><input type="checkbox"/> YES</p> <p><input checked="" type="checkbox"/> NO</p>
<p>If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p>Please add text here....</p>		
<p>Would the project involve or lead to:</p>		
<p>P.9.1.4 </p>	<p>production, harvesting, and/or management of living natural resources by small-scale landholders and/or local communities?</p>	<p><input type="checkbox"/> YES</p> <p><input type="checkbox"/></p> <p>POTENTIALLY</p> <p><input checked="" type="checkbox"/> NO</p>
<p>P.9.1.4 </p>	<p>if answer to above question "yes" or "potentially", does project adopt appropriate and culturally sensitive sustainable resource management practices?</p>	<p><input type="checkbox"/> YES</p> <p><input type="checkbox"/> NO</p> <p><input checked="" type="checkbox"/> NA</p>
<p>If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p>The project doesn't involve use of land and soil for production or crops or other products. Therefore the safeguarding principle under consideration will not be triggered by the project.</p> <p>Conclusion: the parameter will not be monitored.</p>		
P.9.2 VULNERABILITY TO NATURAL DISASTER		

P.9.2.1	Does the project have any risks associated with natural or man-made hazards that could result from land use changes due to the project?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

P.9.2.2	any potential risks that require emergency preparedness and response planning?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
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P.9.2.2	if answer to above question "yes" or "potentially", did the project developer disclose appropriate information about emergency preparedness and response to affected communities?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
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If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.

The project units are household based units and are less susceptible to the natural disasters. Therefore the safeguarding principle under consideration will not be triggered by the project.
 Conclusion: the parameter will not be monitored.

P.9.3 | BIOSAFETY AND GENETIC RESOURCES

P.9.3.1	Does the project involve the transfer, handling, and use of genetically modified organisms/living modified organisms that may result in adverse effects on biological diversity?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

<p>P.9.3.1</p>	<p>the transfer, handling and use of genetically modified organisms/living modified organisms (GMOs/LMOs) that result from modern biotechnology</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p>P.9.3.1</p>	<p>If answer to above question is "yes" has a risk assessment by a competent Expert stakeholder been carried out in accordance with Annex iii of the Cartagena protocol on biosafety to the convention on biological diversity?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>P.9.3.2</p>	<p>If answer to above question is "yes" has any risks identified in the risk assessment?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>P.9.3.3</p>	<p>Forestry (for example Afforestation/Reforestation) involving GMO planting?</p> <p><i>Note - Forestry projects (for example Afforestation/Reforestation) involving GMO planting are not eligible for Certification under Gold Standard for the Global Goals.</i></p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p>The project doesn't involve any activity related to GMOs. Therefore the safeguarding principle under consideration will not be triggered by the project. Conclusion: the parameter will not be monitored.</p>		
<p>P.9.4 RELEASE OF POLLUTANTS</p>		
<p>P.9.4.1</p>	<p>Does the project have a risk of releasing pollutants to air, water, and land in routine, non-routine, or accidental circumstances?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p>Please add text here....</p>		

Would the project involve or lead to:		
P.9.4.1	any potential risk of pollutant release that cannot be avoided?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.4.3	If answer to above question is "Yes" or "potentially", has the project identified all potential pollution sources that may degrade the quality of soil, air, surface, and groundwater in the project area?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.4.2	If answer to above question is "Yes" or "potentially", do the pollution prevention and control technologies and practices applied during the project life cycle align with national regulations or international best practices?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.4.3	If answer to above question is "Yes", is there a monitoring plan to ensure that mitigation measures are implemented, and resources are protected?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
The project units generally yields the Biogas and Bio-slurry. The biogas is used for the cooking purposes whereas the bioslurry is used as nutrients (manure) in the agriculture field. Therefore the safeguarding principle under consideration will not be triggered by the project. Conclusion: the parameter will not be monitored.		
P.9.5 HAZARDOUS AND NON-HAZARDOUS WASTE		
P.9.5.1	Does the project involve the generation of waste materials (both hazardous and non-hazardous)?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.5.3	Does the project involve risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.5.5	Does the project involve the use of any chemicals or materials subject to international bans or phase-outs?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		

Please add text here....		
Would the project involve or lead to:		
P.9.5.1	the generation and management of waste materials?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.5.1	treatment, destruction, or disposal of waste material?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.5.1	If answer to above question is "Yes", does the project involve an environmentally friendly method that includes appropriate control of emissions and residues resulting from the handling and processing of waste material?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.5.3	risk of release of hazardous materials resulting from their production, transportation, handling, storage, or use?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.5.3	If answer to above question is "yes", does project has measures in place to address health risks?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.5.4	Involve manufacture, trade, and use of chemicals and hazardous materials subject to international bans or phase-outs due to their high toxicity to living organisms, environmental persistence, potential for bioaccumulation, or potential for depletion of the ozone layer	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
The project unit does not require or releases any hazardous and non-hazardous chemicals. Therefore the safeguarding principle under consideration will not be triggered by the project.		

Conclusion: the parameter will not be monitored.		
P.9.6 PESTICIDES & FERTILISERS		
P.9.6.1 	Does the project involve the use of chemical pesticides?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.6.5 	Does the project involve purchase, store, manufacture, trade or use products that fall in Classes IA (extremely hazardous) and IB (highly hazardous)	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.6.6 	Does the project use fertilisers, and if so, are measures being taken to minimise their use and nutrient losses to the environment?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.		
<i>Please add text here....</i>		
Would the project involve or lead to:		
P.9.6.1 	chemical pesticides use for pest management?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.6.4 	If answer to question above is "yes" or "potentially", does project has documented Chemical Pesticides Policy in place?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.6.5 	purchase, store, use, manufacture, or trade in Class II (moderately hazardous) pesticides?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.6.5 	If answer to question above is "yes" or "potentially", does project has appropriate controls on manufacture, procurement, or distribution and/or use of these chemicals?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
If the answer is "yes" or "potentially" to any of the above questions, please provide a brief description of the project situation below. Also, provide justification		

and/or evidence as necessary to demonstrate compliance with applicable requirements.

The project units produces the bioslurry that potentially displaces the chemical fertilizers. Basically due to good content of nitrogen in the fertilizer the bio-slurry is a potent replacer of the Urea.
 Conclusion: the parameter will be monitored through the perception survey with the users

P.9.7 | HARVESTING OF FORESTS

P.9.7.1 	Does the project have a risk of unsustainable forest management, including timber harvesting?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.7.1 	Does the project pose a risk of depleting biodiversity and ecosystem functionality in areas where improved forest management is undertaken?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.7.1 	Does the project risk not meeting requirements for environment-friendly, socially beneficial, and economically viable plantations using native species whenever possible?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

The project doesn't involve any activity that requires harvesting of forest products. Therefore the safeguarding principle under consideration will not be triggered by the project.
 Conclusion: the parameter will not be monitored.

P.9.8 | FOOD SECURITY

P.9.8.1 	Does the project involve the risk of negatively influencing access to and availability of food for people affected?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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If the answer to the question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.

Please add text here....

Would the project involve or lead to:

<p>P.9.8.1</p>	<p>modification of the quantity or nutritional quality of food available such as through crop regime alteration or export or economic incentives?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p>If the answer is "yes" or "potentially" to the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p>The project units produces the bioslurry that potentially increases the productivity of crop as it has good content of nitrogen. Conclusion: the parameter will be monitored through the perception survey with the users.</p>		
<p>P.9.9 ANIMAL WELFARE</p>		
<p>P.9.9.1</p>	<p>Does the project involve any risks to animal welfare? Animal welfare shall be ensured by providing access to water and food, appropriate environment, humane treatment, and staff training. Evidence of mistreatment will be treated as an immediate non-conformity.</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>P.9.9.2</p>	<p>Does the project involve any potential risk of excessive or inadequate use of veterinary medicines?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>P.9.9.4</p>	<p>Does the project involve the risk of administering synthetic growth promoters, including hormones?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p><i>Please add text here....</i></p>		
<p>Would the project involve or lead to:</p>		

P.9.9.1	animal husbandry or harvesting of fish populations or other aquatic species? ¹⁰	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.9.1	limiting access for animals to basic needs like drinking water, adequate food, daylight, appropriate shelter etc.?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.9.3	inadequate measures to isolate sick animals and control the spread of disease, especially zoonotic diseases?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.9.5	inadequate low-stress methods, equipment, and facilities that facilitate calm animal movement.	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.9.6	inadequate measures to ensure that animals are exposed to the least stress possible during transportation and slaughtering?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.9.7	inappropriate spacing per animal and stocking rates per land unit?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.9.8	inadequate measures to address the specific needs of aquatic animals?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
P.9.9.9 P.9.9.10	<p>primary production of living natural resources such as animal husbandry, aquaculture, and fisheries?</p> <p>If the answer is yes, implement industry-standard sustainable management practices in line with to one</p>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

¹⁰ 'Involve' means if the project mechanism and/or impact(s) are achieved via changing animal husbandry practices in some way.

	or more relevant and credible standards and utilise available technologies.	
<p>If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p>The project doesn't involve any activity that requires animal husbandry. Therefore the safeguarding principle under consideration will not be triggered by the project. Conclusion: the parameter will not be monitored</p>		
<p>P.9.10 HIGH CONSERVATION VALUE AREAS AND CRITICAL HABITATS</p>		
P.9.10.1 	Does the project have the risk of negatively impacting HCV areas and/or critical habitats?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
P.9.10.2 	Does the project in the project area or area of downstream impacts have risks to the following: native tree patches, individual native trees, freshwater resources (including rivers, lakes, swamps, temporary water bodies, and wells), habitats of rare, threatened, and endangered species, and biodiversity-enhancing areas?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<p>If the answer to any of the questions above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p><i>Please add text here....</i></p>		
<p>Would the project involve or lead to:</p>		
P.9.10.1 	identified habitats as HCV areas and or Critical habitats?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.10.1 	If answer to above question is "yes", does the project have any risks that could negatively impact the catchment, project success, and surrounding HCV and ecological assets, as well as any measurable adverse impacts on the criteria or biodiversity values for which the critical habitat was designated, and on the ecological processes supporting that biodiversity?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA

<p>P.9.10.1 </p>	<p>If answer to above question is “yes”, is a robust, appropriately designed, and long-term Habitats and Biodiversity Action Plan absent which will make the project unable to achieve net gains of those biodiversity values for which the critical habitat was designated?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A</p>
<p>P.9.10.2 </p>	<p>Does the project area or area of downstream impacts have native tree patches, individual native trees, freshwater resources (including rivers, lakes, swamps, temporary water bodies, and wells), habitats of rare, threatened, and endangered species, and biodiversity-enhancing areas?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO</p>
<p>P.9.10.2 </p>	<p>If the answer to the above question is “yes”, will the project have any adverse effects on these areas?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p>P.9.10.3 </p>	<p>If the answer to above question is “yes”, does the project has opportunities to minimise unwarranted conversion or degradation of the habitat and to enhance the habitat as part of its development?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p>P.9.10.4 </p>	<p>Is the project applying Land Use & Forest Activity Requirements and managing a minimum 10% of the project area to protect or enhance the biological diversity of native ecosystems following HCV approach as per the given requirements?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>
<p>P.9.10.5 </p>	<p>Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p> <p>The project technologies are household technologies and will not have any impacts on identified habitat and have no adverse impact on bio-diversity. Therefore the safeguarding principle under consideration will not be triggered by the project. Conclusion: the parameter will not be monitored.</p>		
<p>P.9.11 ENDANGERED SPECIES</p>		

<p>P.9.11.1 </p>	<p>Does the project lead to the reduction or negative impact on any recognised Endangered, Vulnerable or Critically Endangered species?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p>Please add text here....</p>		
<p>Would the project involve or lead to:</p>		
<p>P.9.11.2 </p>	<p>distortion of habitats of endangered species?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NA</p>
<p>P.9.11.2 </p>	<p>If answer to the above question is "yes", does the project plan to protect and enhance them?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A</p>
<p>P.9.11.2 </p>	<p>Are opinions and recommendations of an Expert Stakeholder(s) not sought and demonstrated as being included in the project design?</p>	<p><input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA</p>
<p>If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.</p>		
<p>The project technologies are household technologies and do not lead to the adverse impact on endangered, vulnerable or critically endangered species. Therefore the safeguarding principle under consideration will not be triggered by the project. Conclusion: the parameter will not be monitored.</p>		
<p>P.9.12 INVASIVE ALIEN SPECIES</p>		
<p>P.9.12.1 </p>	<p>Does project introduce any alien species (not currently established in the country or region of the project) into new environments?</p>	<p><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>If the answer to question above is "yes," please explain project situation and how the project will ensure compliance with applicable requirements.</p>		
<p>Please add text here....</p>		

Would the project involve or lead to:		
P.9.12.1	risk of introducing any alien species with a high risk of invasive behaviour regardless of whether such introductions are permitted under the existing regulatory framework?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.12.1	risk of potential accidental or unintended introductions including the transportation of substrates and vectors (such as soil, ballast, and plant materials) that may harbour alien species.	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
P.9.12.2	risk of spreading alien species into areas in which they have not already been established?	<input type="checkbox"/> YES <input type="checkbox"/> POTENTIALLY <input checked="" type="checkbox"/> NO
If the answer is "yes" or "potentially" to any of the above question, please provide a brief description of the project situation below. Also, provide justification and/or evidence as necessary to demonstrate compliance with applicable requirements.		
<i>Please add text here....</i>		

APPENDIX 2- CONTACT INFORMATION OF VPA IMPLEMENTER

Organisation name	Alternative Energy Promotion Centre (AEPC)
Registration number with relevant authority	NA
Street/P.O. Box	Mid Baneshwor, Kathmandu
Building	
City	
State/Region	Bagmati
Postcode	
Country	Nepal
Telephone	+977-1-4598013
E-mail	nawa.dhakal@aepec.gov.np
Website	www.aepec.gov.np
Contact person	Nawa Raj Dhakal
Title	Executive Director
Salutation	Mr.
Last name	Dhakal
Middle name	Raj
First name	Nawa
Department	Alternative Energy Promotion Centre
Mobile	
Direct tel.	+977-1-4598013
Personal e-mail	nawa.dhakal@aepec.gov.np

APPENDIX 3- LUF ADDITIONAL INFORMATION

NA

APPENDIX 4 - DESIGN CHANGES

A4.1. Details of proposed or actual design change

>>

NA

A4.2. Describe the Impacts of Design Change on the following

a. Additionality

>>

NA

b. Applicability of methodology and other methodological regulatory documents with which the project activity has been certified

>>

NA

c. Compliance with the monitoring plan of the applied methodology

>>

NA

d. Level of accuracy and completeness in the monitoring of the project activity compared with the requirements contained in the registered monitoring plan

>>

NA

e. Scale of the project activity

>>

NA

f. Stakeholder consultation

>>

NA

g. Sustainable development criteria

>>

NA

h. Safeguarding Assessment

>>

NA

i. Compliance with applicable legislation

>>

NA

Revision History

Version	Date	Remarks
2.3	Dd/mm/yyyy	Editorial changes in line with V2.1 of the Safeguarding Principles and Requirements
2.2	21 June 2023	Editorial changes in line with V2.0 of the Safeguarding Principles and Requirements
2.1	14 April 2023	Integrated the design change memo as annex of the document.
2.0	4 May 2022	
1.1	7 October 2020	<p>Hyperlinked section summary to enable quick access to key sections</p> <p>Improved clarity on Key Project Information</p> <p>Inclusion criteria table added</p> <p>Gender sensitive requirements added</p> <p>Prior consideration (1 yr rule) and Ongoing Financial Need added</p> <p>Safeguard Principles Assessment as annex and a new section to include applicable safeguards for clarity</p> <p>Improved Clarity on SDG contribution/SDG Impact term used throughout</p> <p>Clarity on Stakeholder Consultation information required</p> <p>Provision of an accompanying Guide to help the user understand detailed rules and requirements</p>
1.0	10 July 2017	Initial adoption