



**Gold Standard**<sup>®</sup>  
for the Global Goals

**TEMPLATE**

# MONITORING REPORT

---

**PUBLICATION DATE 14.10.2020**

**VERSION v. 1.1**

**RELATED SUPPORT - TEMPLATE GUIDE Monitoring Report v. 1.1**

---

This document contains the following Sections

Key Project Information

SECTION A - Description of project

SECTION B - Implementation of project

SECTION C - Description of monitoring system applied by the project

SECTION D - Data and parameters

SECTION E - Calculation of SDG Impacts

SECTION F - Safeguards Reporting

SECTION G - Stakeholder inputs and legal disputes

## KEY PROJECT INFORMATION

### Key Project Information

<b>GS ID (s) of Project (s)</b>	GS 11655
<b>Title of the project (s) covered by monitoring report</b>	Implementation of clean energy technology in rural areas in india-1
<b>Version number of the PDD/VPA-DD (s) applicable to this monitoring report</b>	05
<b>Version number of the monitoring report</b>	05
<b>Completion date of the monitoring report</b>	22/02/2023
<b>Date of project design certification</b>	25/11/2022
<b>Date of Last Annual Report</b>	N/A
<b>Monitoring period number</b>	01
<b>Duration of this monitoring period</b>	10/06/2021 to 31/08/2022(both days included)
<b>Project Representative</b>	Shivani Garg Greneity Infocom Service Pvt Ltd
<b>Host Country</b>	India
<b>Activity Requirements applied</b>	<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
<b>Methodology (ies) applied and version number</b>	AMS-I.E. Switch from non-renewable biomass for thermal applications by the user - Version 12
<b>Product Requirements applied</b>	<input checked="" type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> N/A

**Table 1 - Sustainable Development Contributions Achieved**

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved	Units/ Products
13 Climate Action (mandatory)	Emission reductions	54,482	tCO <sub>2</sub> e
7 Affordable and Clean Energy	Access to affordable and clean energy services	11,000 biogas plant users have access to clean energy	No. of affected users.
8 Decent Work and Economic Growth	unemployment rate, by sex, age and persons with disabilities	10 employments.	Number of employments created.
8 Decent Work and Economic Growth	unemployment rate, by sex, age and persons with disabilities	2 trainings per year.	Number of trainings provided.
3 Good health and well being	Improvement in health and decrease in illness	11,000 biogas plant users have improved health conditions.	No. of affected users.

**Table 2 – Product Vintages**

Start Dates	End Dates	Amount Achieved		
		GS VERs	...	...
10/06/2021	31/12/2021	19,537tCO <sub>2</sub> e		
01/01/2022	31/08/2022	34,945tCO <sub>2</sub> e		
	Total	54,482tCO <sub>2</sub> e		

## SECTION A. DESCRIPTION OF PROJECT

### **A.1. General description of project**

>>The project activity aims to replace the commonly used inefficient wood fired mud stove technology, with efficient biogas-based cook stove, which is clean and sustainable. The project activity involves bundling household biogas plants located in the state of Punjab, India. The proposed project activity includes 11,000 digesters of capacity 4m<sup>3</sup> which are implemented between June, 2021 and February, 2022<sup>1</sup>.

Each household will utilize the dung of its cows to feed the digester for the production of biogas for domestic purposes. The generated biogas from the plants to be used for the purpose of cooking and other thermal energy needs in households. The thermal energy generated from the project activity replaces the equal amount of thermal energy which otherwise would have been supplied from the woody biomass (firewood) based stove technology. Therefore, the project activity replaces firewood for equal thermal energy needs and thereby reduces harmful greenhouse gases in the atmosphere. In addition, the hygienic conditions in the rural areas will be improved by an appropriate disposal of waste. Further, residue from the bio digesters is used as organic fertilizer and will improve soil conditions in rural areas.

Project activity will result in the saving of 54,482tCO<sub>2</sub>e for this monitoring period.

---

<sup>1</sup> Project Database

Activity Data	Value	Unit	Ref
$E = \eta \cdot H_b \cdot V_b$			
<b>Where:</b>			
<b>E = Energy available from a biogas digester</b>			
= combustion efficiency of burners	60%		Biogas technology, B.T.Nijajuna, New Age International Publishers, New Delhi, 2002 (page no 38)
H <sub>b</sub> = heat of combustion per unit volume of biogas	21.5	MJ/m3	Default value as per AMS-I.I, version 4
V <sub>b</sub> = Volume of the biogas	44000	m3/day	
<b>E =</b>	<b>567600</b>	<b>MJ/day</b>	
<b>E =</b>	<b>157666.67</b>	<b>kWh/day</b>	
<b>E =</b>	<b>39416.67</b>	<b>kW thermal Capacity</b>	
<b>E =</b>	<b>39.42</b>	<b>MW, thermal</b>	

### A.2. Location of project

>> India

State- Punjab



### **A.3. Reference of applied methodology**

>>AMS-I. E. "Switch from Non-Renewable Biomass for Thermal Applications by the User"  
Version 12.0 is applicable to the proposed project because the project meets all applicability criteria.

### **A.4. Crediting period of project**

>>Crediting period of the project activity is from 01-06-2021 to 31-05-2031.

## SECTION B. IMPLEMENTATION OF PROJECT

### B.1. Description of implemented project

>>The project activity involves bundling of 11,000 household biogas plants located in the state of Punjab, India with capacity – 4m<sup>3</sup>. The project development is performed & maintained by Green Mission Welfare society Project activity involves installation of new biogas plant in the households of Punjab and produced biogas will be used in the biogas stoves for thermal energy needs.

Hence, the project activity is a Greenfield project activity. Residues from the bio digesters are used as organic fertilizer in the garden area and fields of the local people.

Activity/Milestone	Date
Start date of the project	01/06/2021
Final commissioning date	05/02/2022
Start date of GS crediting period	01/06/2021

For the monitoring period from 10/06/2021 to 31/08/2022 emission reductions achieved is around 54,482 tCO<sub>2</sub>e/year.

#### B.1.1 Forward Action Requests

>>There is no Forward Action Required.

### B.2. Post-Design Certification changes

>>

B.2.1. Temporary deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

>>This section is not applicable and hence left blank intentionally.

B.2.2. Corrections

>>This section is not applicable and hence left blank intentionally.

B.2.3. Changes to start date of crediting period

>>This section is not applicable and hence left blank intentionally.

B.2.4. Permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline

>>This section is not applicable and hence left blank intentionally.

B.2.5. Changes to project design of approved project

>>This section is not applicable and hence left blank intentionally.

## SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

>>

Greneity Infocom Service Pvt Ltd (hereafter Greneity) facilitates the End User families to set up village level institutions to take care of repairs, maintenance and the social controls/peer support needed to cope with various exigencies that crops up.

### **Biogas Project Management Unit**

A dedicated team is set up within Greneity for management and monitoring of the Biogas Project. This Project Management & Monitoring Unit consist of the following staff:

Biogas Field Workers/RETs:

Biogas field workers oversee the operation & maintenance of biogas units. Each field worker is in-charge of approximately 500 unit. They report to the Project Manager and their tasks are to:

- Inspect the bio-digesters in periodic intervals to ensure proper functioning of all the plants
- Identify local suppliers of material for village clusters
- Record the working of bio-digesters in specially designed formats and handover the data to manager on a regular basis
- Assist in selection of Volunteers, train and support them
- Contract Masons and attend to major repairs that cannot be handled by the village level institutions

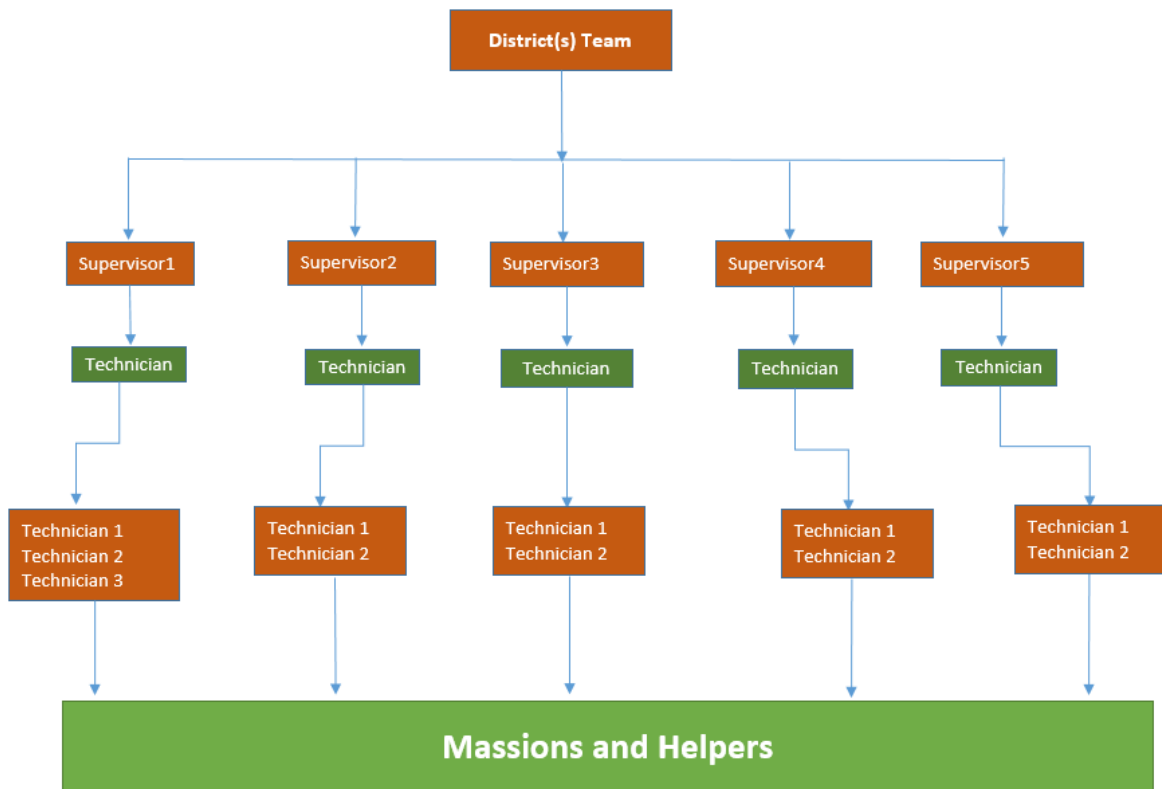
Management system at village level:

Village level Volunteers maintain the Monitoring log Books where the reasons for non-usage are recorded. Every participating village have a Volunteer to monitor usage of biogas units. Volunteer(s)/mason(s) will be responsible for monitoring of usage and is the first to identify dysfunctional units. The Volunteer either prompts the End User to set right a problem or bring it to the notice of the Biogas Technician.

Each Biogas Unit is marked with a unique Identification Number and date of construction.

A Monitoring log Book is maintained for the project activity. If any Biogas Unit is faulty or not functional, the problem report is automatically passed on to Volunteer(s)/mason(s). There is a continuous database maintained of all the Biogas Units not operational on a regular basis where number of non-operational days, and the reasons of non-operation are recorded. Mostly, volunteers are able to handle the problem arises, in case of major issues, Biogas technicians are informed to handle the situation

Information flow diagram is as follows;



## SECTION D. DATA AND PARAMETERS

### D.1. Data and parameters fixed ex ante or at renewal of crediting period

#### >> SDG13

Data/parameter	$N_{HH}$
Unit	Number
Description	Number of households in the project activity in year y
Source of data	Project Proponent’s project database
Value(s) applied	11,000

Choice of data or Measurement methods and procedures	Project database
Purpose of data	Estimation of Baseline
Additional comment	NIL

Data/parameter	$BC_{BL,HH,y}$
Unit	tonnes/household/year
Description	Average annual consumption of woody biomass per household before the start of the project activity
Source of data	Baseline survey
Value(s) applied	5.34
Choice of data or Measurement methods and procedures	<p>To know the baseline fuel/technologies which is the firewood and its consumption pattern, a survey was conducted in the state of Punjab.</p> <p>The survey is conducted in line with the methodology and following UNFCCC sampling standard 'Sampling and surveys for CDM project activities and programmes of activities' version 09 and guideline 'Sampling and surveys for CDM project activities and programmes of activities' version 04. A 90% confidence interval and 10% error margin applied for sample calculation.</p>
Purpose of data	Estimation of Baseline
Additional comment	NIL

Data/parameter	$f_{NRB,y}$
Unit	Percentage

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 the requirements of methodological tool - Calculation of the fraction of non-renewable biomass, version 03.
Value(s) applied	95.61%
Choice of data or Measurement methods and procedures	Calculation of the fraction of non-renewable biomass, version 03 (Methodological tool)
Purpose of data	Estimation of Baseline
Additional comment	NIL

Data/parameter	NCV <sub>biomass</sub>
Unit	TJ/tonne
Description	Net calorific value of the non-renewable woody biomass that is substituted
Source of data	Default value from the methodology, AMS-I.E - Switch from non-renewable biomass for thermal applications by the user, Version 12.0.
Value(s) applied	0.0156 TJ/tonne
Choice of data or Measurement methods and procedures	Default value from the methodology, AMS-I.E - Switch from non-renewable biomass for thermal applications by the user, Version 12.0.
Purpose of data	Estimation of Baseline
Additional comment	NIL

Data/parameter	$EF_{projected\_fossilfuel}$
Unit	tCO <sub>2</sub> /TJ
Description	Emission factor for the substitution of non-renewable woody biomass
Source of data	Default value from the methodology, AMS-I.E - Switch from non-renewable biomass for thermal applications by the user, Version 12.0.
Value(s) applied	64.4 tCO <sub>2</sub> /TJ
Choice of data or Measurement methods and procedures	Default value from the methodology, AMS-I.E - Switch from non-renewable biomass for thermal applications by the user, Version 12.0.
Purpose of data	Estimation of Baseline
Additional comment	NIL

## D.2 Data and parameters monitored

### >>SDG 13

Data / Parameter	BCPJ,HH,y
Unit	tonnes/household/year
Description	Average annual consumption of woody biomass per household in the pre-project devices during the project activity, if it is found that pre-project devices were not completely displaced but continue to be used to some extent.
Source of data	Survey
Value(s) applied	0.073t/household/year During survey it was found 4 % of sampled population 440) used firewood for 5 days.

Measurement methods and procedures	Third party survey was conducted by EEMG, Bhopal to assess the above parameter. Survey was conducted in accordance to the "Standard: Sampling and surveys for CDM project activities and programme of activities" wherein sample Population was randomly selected through random sample generator.
Monitoring frequency	At least once in every two years.
QA/QC procedures	Third party survey by EEMG, Bhopal was carried out to estimate the usage of firewood after the installation of the biogas plants. Survey was conducted to assess the above parameter in accordance to the Guidelines for sampling and surveys for CDM project activities and programmes of activities (Ver04.0, CDM-EB67-A06-GUID) issued by UNFCCC was used. Total 300 samples were surveyed in Punjab.
Purpose of data	Estimation of Baseline Emissions.
Additional comment	Nil

Data / Parameter	$N_{HH}$
Unit	Number
Description	Number of households (biogas system) in the project activity in operational per year
Source of data	Survey
Value(s) applied	11,000
Measurement methods and procedures	<p>Monitoring consist of checking of representative sample, to ensure that bio-digesters operating. Calculated as <math>NHH \cdot P_y</math>, where NHH is the number of biodigesters installed in the project and <math>P_y</math> is Proportion of Biodigesters operational estimated based on the sample survey.</p> <p>NHH: 11,000  <math>P_y</math>: 100%</p> <p>As part of third party survey 300 biogas plants were surveyed and all were found in operational state.</p>
Monitoring frequency	At least once in every two years.

QA/QC procedures	Third party survey to be conducted following standard sampling approach
Purpose of data	Estimation of Baseline Emissions.
Additional comment	The survey was conducted to check the operational rate of biogas plant.

**SDG 8**

Data / Parameter	Unemployment rate, by sex, age and persons with disabilities
Unit	Numbers
Description	Provided training for improving employability. Thereby improving Quality of Employment.
Source of data	Records of the training programmes
Value(s) applied	2
Measurement methods and procedures	Two trainings per year was conducted
Monitoring frequency	Annual
QA/QC procedures	Continuation of regular trainings/workshops.
Purpose of data	Assessment of contribution towards 'Safeguarding Principles' and to monitor the contribution to SDG 8
Additional comment	Two training were conducted during a year and recording of the trainings have been recorded. The overall objective of the meeting of the network of local staff with volunteers was to share lessons and discuss possibilities for the improvements on the training activities related to domestic biogas program.

Data / Parameter	Quantitative employment and income generation (8.5)
Unit	Numbers

Description	Number of people employed for the maintenance and servicing of bio digesters.
Source of data	Attendance Sheet, employment records, employment contracts maintained by Project Developer
Value(s) applied	10 local employments
Measurement methods and procedures	Manually by Project Developer
Monitoring frequency	Annual
QA/QC procedures	Income generation to be enhanced by creating job opportunities through training and capacity building.
Purpose of data	To monitor the contribution to SDG 8
Additional comment	

**SDG 7**

Data / Parameter	Access to affordable and clean energy services (7.1.2)
Unit	Numbers
Description	Number of biogas system operational under the project activity
Source of data	Biogas User Survey
Value(s) applied	11,000
Measurement methods and procedures	Survey was conducted in the 300 sampled population and were found operational at the time of survey. Therefore, it is evident from the survey that 100% operational rate of all the biogas plants and in turn all the users have access to affordable and clean energy.
Monitoring frequency	At least once in two years
QA/QC procedures	Required sample size shall be determined following UNFCCC sampling standard
Purpose of data	To monitor the contribution to SDG 7
Additional comment	Nil

**SDG 3**

Data / Parameter	Improvement in health and decrease in illness (3.9.1)
Unit	Numbers
Description	Indoor air quality at usage point
Source of data	Biogas User Survey
Value(s) applied	11,000
Measurement methods and procedures	Improvement in health and decrease in illness will be assessed through interview with end users due to project implementation. Users opinion on indoor air quality due to biogas usage was collected during monitoring survey. survey was conducted where 100% of the users confirmed improvement in their health after the installation of the project activity.
Monitoring frequency	At least once in two years
QA/QC procedures	Required sample size shall be determined following UNFCCC sampling standard
Purpose of data	To monitor the contribution to SDG 3
Additional comment	Third party survey was conducted where in biogas users were interviewed about their health and decrease in illness due to project implementation. Users’ opinion on indoor air quality due to biogas usage was collected during monitoring survey. 100% of the users faced positive impact on their health.

**D.3. Comparison of monitored parameters with last monitoring period**

Data/Parameter	Value obtained in this monitoring period	Value obtained last monitoring period
13 Climate Action (mandatory)	54,482	Not applicable as this is the first monitoring period
7 Affordable and Clean Energy	11,000 biogas plant users have access clean energy	Not applicable as this is the first monitoring period

8 Decent Work and Economic Growth	10 permanents employment	Not applicable as this is the first monitoring period
8 Decent Work and Economic Growth	2 training per year	Not applicable as this is the first monitoring period
3 Good health and well being	11,000 biogas plant users will have improved health conditions.	Not applicable as this is the first monitoring period

#### D.4. Implementation of sampling plan

>> A third party sample survey has been performed. The survey is conducted in line with the methodology and following UNFCCC sampling standard 'Sampling and surveys for CDM project activities and programs of activities' version 09 and guideline 'Sampling and surveys for CDM project activities and programmes of activities' version 04. A 90% confidence interval and 10% error margin applied for sample calculation. To establish a statistically representative sample size, from the total rural targeted households in Punjab. Guidelines for sampling and surveys for CDM project activities and programs of activities (Ver04.0, CDM-EB67-A06-GUID) issued by UNFCCC, is used. As per the guidelines provided by UNFCCC, for the representative sampling methods, sample size shall be chosen for a 90/10 precision (90% confidence interval and 10% margin of error) for parameter values used to determine emission reductions.

The project activity is envisaging to implement in the states of Punjab, India.

The sample population has homogeneous characteristics which are as follows:

- Basic functioning of the bio digesters is same irrespective of their sizes.
- All of the bio digesters are used by villagers
- Main usage of the bio digesters is to suffice domestic needs

The following equation is used for arriving the sample size.

$$n \geq \frac{1.645^2 N \times p(1 - p)}{(N - 1) \times 0.1^2 \times p^2 + 1.645^2 p(1 - p)}$$

Where:

n= Sample size

$N$  = Total number of biogas system of type  $i$  installed under the project

$p$  = expected proportion

1.645 = represents the 90% confidence required

0.1 = represents the 10% relative precision

The total sample size decided is 300 households.

Simple random sampling was adopted while performing the survey. Sampling was conducted according to "Standard: Sampling and surveys for CDM project activities and programme of activities" version 09. Wherein as per the guidelines provided by UNFCCC, for the representative sampling methods, sample size shall be chosen for a 90/10 precision (90% confidence interval and 10% margin of error) for parameter values used to determine emission reductions. 60% proportion has been considered and therefore 178 samples were obtained. However, to be on conservative side 300 samples were considered to get a higher precision. As per calculation below shows 300 sample size gives a higher relative precision.

Input	Value
Actual sample size	300
Sample proportion	0.6000
Standard error of the proportion	0.0279
Precision associated with a proportion	0.0459
Relative precision	7.6%

## SECTION E. CALCULATION OF SDG IMPACTS

### E.1. Calculation of baseline value or estimation of baseline situation of each SDG Impact

#### >> SDG13:

As per "AMS I.E- Switch from non-renewable biomass for thermal applications by the user, Version 12, the baseline emissions (BE<sub>y</sub>) are calculated as:

$$BE_y = B_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected\_fossil\_fuel}$$

Where,

$BE_y$  = Baseline emissions during the year y in t CO<sub>2</sub>e

$B_y$  = 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 (fNRB)

$NCV_{biomass}$  = Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonne)

$EF_{projected\_fossil\_fuel}$  = Emission factor for the substitution of non-renewable woody biomass by similar consumers. Use a value of 64.4 tCO<sub>2</sub>/TJ

fNRB is fixed for the entire crediting period.

$NCV_{biomass}$  and EF is default value as per applied methodology.

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

$N_{HH}$  = 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

$BC_{BL,HH,y}$  for the project have been considered based on survey.

Accordingly, BE<sub>y</sub> would be:

$$BE_y = B_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected\_fossil\_fuel}$$

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

State	NHH	NRB	BC <sub>BL,HH,y</sub>	NCV <sub>biomass</sub>	EF
Punjab	11,000	95.61%	5.34	0.0156	64.4

BC<sub>PJ,HH,Y</sub> = 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) .

Value obtained as per the survey results

States	Average No. of days of firewood consumption in the monitoring period	% of household used firewood	Total households used firewood in the project activity	BC <sub>BL,HH,y</sub> (fixed ex- ante) (tonnes/household/year)	BC <sub>PJ,HH,Y</sub> (tonnes/household/year)
Punjab	5	4	440	5.34	0.073

Leakage factor of 0.95 is applied the Emission reductions. Therefore, the final emission reduction after applying the leakage factor is 54,482 tCO<sub>2</sub>e.

## E.2. Calculation of project value or estimation of project situation of each SDG Impact

Sustainable Development Goals Targeted	SDG Impact (defined in B.6.)	Estimated Annual Average	Units or Products
13 Climate Action (mandatory)	Emission reductions	54,482	tCO <sub>2</sub> e
7 Affordable and Clean Energy	Access to affordable and clean energy services	11,000 biogas plant users have access to clean energy	Number of affected users

8 Decent Work and Economic Growth	Unemployment rate, by sex, age and persons with disabilities	10 permanent employments.	Number of employments created.
8 Decent Work and Economic Growth	Unemployment rate, by sex, age and persons with disabilities	2 trainings per year.	Number of trainings provided.
3 Good health and well being	Improvement in health and decrease in illness	11,000 biogas plant users have improved health conditions.	Number of affected users.

### E.3. Calculation of leakage

>>

SDG 13: In line with the applied methodology and PDD, By is multiplied with 0.95 to account leakage.

Therefore, the net benefit is =  $57,350 * 0.95 = 54,482 \text{ tCO}_2\text{e}$

SDG 3: There is no leakage emissions for SDG 3

SDG 7: There is no leakage emissions for SDG 7

SDG 8: There is no leakage emissions for SDG 8

### E.4. Calculation of net benefits or direct calculation for each SDG Impact

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
13 Climate Action (mandatory)	Emission reductions	57,350tCO <sub>2</sub> e	2,868 (leakage)	54482 tCO <sub>2</sub> e
7 Affordable and Clean Energy	Access to affordable and clean energy services	Firewood based conventional	N/A	11,000
8 Decent Work and Economic Growth	Unemployment rate, by sex, age and persons with disabilities	No activity	N/A	10employments
8 Decent Work and Economic Growth	Unemployment rate, by sex, age and persons with disabilities	No activity	N/A	2 trainings
3 Good health and well being	Improvement in health and decrease in illness	Illness due to smoke	N/A	11,000

**E.5. Comparison of actual SDG Impacts with estimates in approved PDD**

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values <sup>2</sup> achieved during this monitoring period
13	65,648tCO <sub>2</sub> e	54,482 tCO <sub>2</sub> e
8	Estimated 10 permanent employments Estimated 2 trainings/year	10 employments 2 trainings per year.
7	100% users were using firewood which is not a Clean Source of energy	11,000 users have accessed to clean energy source.
3	Improvement in health and decrease in illness	11,000 biogas plant users now have improved health conditions

E.5.1. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period

>>

As per ex ante calculation with respect to the registered PDD, the annual emission reductions from the project activity is for this monitoring period (10/06/2021 to 31/08/2022)is 65,648 tCO<sub>2</sub>e. Since the project is retroactive, hence reductions for the current monitoring period is 54,482 tCO<sub>2</sub>e. Further, annual emission reductions are not beyond the estimated emission reductions in the PDD.

**E.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD**

>> This section is not applicable and hence left blank intentionally.

---

<sup>2</sup> Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

## SECTION F. SAFEGUARDS REPORTING

>>>> As per approved PDD of the project, no safeguarding principles are required to be monitored. Moreover, the safeguarding principles are not adversely affected by the project activity. The project has been appropriately aligned with the safeguarding principles.

## SECTION G. STAKEHOLDER INPUTS AND LEGAL DISPUTES

### **G.1. List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.**

>> There were minor issues reported by users which were recorded in grievance register.

. List of issues raised are as below:

1. Water in the pipeline
2. Burner flame low
3. Issues with the burner
4. Problem in stove

The same were addressed with in a day by the local technician. The log books are maintained.

### **G.2. Report on any stakeholder mitigations that were agreed to be monitored.**

>> There was no mitigation that was agreed to be monitored with any stakeholder during the monitoring period.

### **G.3. Provide details of any legal contest that has arisen with the project during the monitoring period**

>> There was no legal contest arises due to the project or against the project during the monitoring period.



## Revision History

Version	Date	Remarks
1.1	14 October 2020	<p>Hyperlinked section summary to enable quick access to key sections</p> <p>Improved clarity on Key Project Information</p> <p>Section for POA monitoring</p> <p>Forward action request section</p> <p>Improved Clarity on SDG contribution/SDG Impact term used throughout</p> <p>Clarity on safeguard reporting</p> <p>Clarity on design changes</p> <p>Leakage section added for VER/CER projects</p> <p>Addition of Comparison of monitored parameters with last monitoring period</p> <p>Provision of an <a href="#">accompanying Guide</a> to help the user understand detailed rules and requirements</p>
1.0	10 July 2017	Initial adoption