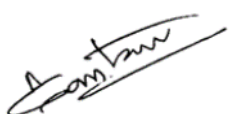


<b>Verification report for GS4GG project activity (Gold Standard for the Global Goals)</b>	
<b>BASIC INFORMATION</b>	
<b>Title of the GS4GG Project activity</b>	Altaca Meram Biogas Plant
<b>Reference number of the project activity</b>	GS 5920
<b>Version number of the verification and certification report</b>	7.0
<b>Completion date of the verification and certification report</b>	18/06/2025
<b>Monitoring period number and duration of this monitoring period</b>	1 <sup>st</sup> Monitoring Period Duration: 01/07/2022 – 30/06/2024 (including both days)
<b>Version number of the monitoring report to which this report applies</b>	6.0 Dated: 15/04/2025
<b>Crediting period of the project activity corresponding to this monitoring period</b>	1 <sup>st</sup> crediting period Duration: 01/07/2022 – 30/06/2027 (5 years, twice renewable)
<b>Project representative(s)</b>	Toros Meram Yenilenebilir Enerji Üretim A.Ş. (Project Owner)  GTE Karbon Sustainable Enerji Egitim Danismanlik Ve Ticaret A.S. (Project Developer)
<b>Host Party</b>	Türkiye
<b>Applied methodologies and standardized baselines</b>	The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste
<b>Mandatory sectoral scopes</b>	01: Energy industries (renewable / non-renewable sources) 13: Waste handling and disposal
<b>Activity requirements applied</b>	<input type="checkbox"/> Community Services Activities <input checked="" type="checkbox"/> Renewable Energy Activities <input type="checkbox"/> Land Use and Forestry Activities/Risks & Capacities <input type="checkbox"/> N/A
<b>Product requirements applied</b>	<input checked="" type="checkbox"/> GHG Emissions Reduction & Sequestration <input type="checkbox"/> Renewable Energy Label <input type="checkbox"/> N/A

Sustainable Development Goals Targeted	SDG Impact	Total amount of certified SDG impact achieved in this monitoring period	Units/ Products
<b>SDG 7: Affordable and Clean Energy</b>	7.2 Renewable energy generation	47,253.4	MWh
<b>SDG 8: Decent Work and Economic Growth</b>	8.5 Increased employment opportunities	84	Number
<b>SDG 12: Responsible Consumption and Production</b>	12.4 Efficient consumption and production	92,883.23 (chicken manure) 59,610.00 (cattle manure) 22,397.39 (agricultural)	Tonnes
<b>SDG 13: Climate Action</b>	13.2.2 Reduction in GHGs emissions	01/07/2022 – 31/12/2022: 45,751 01/01/2023 – 31/12/2023: 68,932 01/01/2024 – 30/06/2024: 29,666  Total: 144,349	tCO <sub>2</sub> e (GS-VERs)
<b>Name of the Gold Standard approved auditor (VVB)</b>		Earthood Services Limited (formerly known as Earthood Services Private Limited)	
<b>Name, position and signature of the approver of the verification and certification report</b>		 Ashok Kumar Gautam Director	

## SECTION A. Executive summary

The project activity, titled "Altaca Meram Biogas Plant" (GS 5920) is registered under Gold Standard for Global Goals. It involves electricity generation from renewable energy by capturing biogas from animal manure and agricultural waste through anaerobic digestion. The plant operates with a total capacity of 6.176 MWm / 6.004 MWe, utilizing four gas engines (each rated at 1.544 MWm / 1.501 MWe), and is expected to supply 42.028 GWh of electricity annually to the Turkish national grid. The project technologies, designed to reduce GHG emission and generate electricity, comply with the technology and measure requirements of the applied GS methodology "The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste", version 1.0/6/.

The Project activity is being implemented and owned by Toros Meram Yenilenebilir Enerji Üretim A.Ş. and have the full ownership of GS-VERs. Also, the Project Developer is GTE Karbon Sustainable Enerji Egitim Danismanlik Ve Ticaret A.S.

The start date of the crediting period is 01/07/2022, which has been proposed as the post-design certification changes during the current verification process of 1<sup>st</sup> monitoring period of the 1<sup>st</sup> crediting period. As a result, the crediting period for the project activity is from 01/07/2022 to 30/06/2027.

The assessment team confirms that the total generation of emission reductions during this monitoring period, from 01/07/2022 to 30/06/2024 (inclusive of both dates), is 144,349 tCO<sub>2</sub>e and total amount of renewable energy generated is 47,253.4 MWh under SDG 7. The project activity has provided the employment opportunities to 84 peoples under SDG 8. A total of 152,493.23 tonnes of manure (including both chicken and cattle manure) and 22,397.39 tonnes of agricultural waste has been utilized in this MP under SDG 12.

### Scope of verification

This verification is an independent and objective review and ex-post determination of the monitored reductions in the GHG emissions and SDG outcomes by the VVB. The verification includes the implementation and operation of the PA and tests the data and assertions set out in the monitoring report prepared for this monitoring period, and it is based on review of the following:

- The registered GS PDD and monitoring plan/01/.
- GS4GG methodology - "The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste"/6/.
- UNFCCC criteria referred to in the Kyoto Protocol criteria and the CDM modalities and procedures as agreed in the Bonn Agreement and the Marrakech Accords.
- GS4GG requirements/7//9//10//11/.
- The GS Validation and Verification Standard (VVS) version 1.0/7/, the CDM Project Standard (PS) version 3.0/12/ and GS4GG Site visit and Remote audit requirements and procedures version 2.0/8/.
- Relevant decisions, guidance, and clarifications of the CMP and CDM Executive Board and any other information and references relevant to the project activity's reported emission reductions.

The verification has considered both quantitative and qualitative aspects on

stated/reported SDG outcomes achieved as part of GS4GG. The monitoring report (all versions) and corresponding supporting documentation was assessed in accordance with the rules defined by UNFCCC and GS4GG, as appropriate to the PA. The verification is not meant to provide any consulting or recommendations to the PD/others. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the monitoring activities.

### **Verification process**

The verification process is conducted as per internal quality management system of the VVB, which includes the following steps;

- a) Contract with the PD and appointment of verification team and technical review team (refer Section B.1 and B.2 of this report)
- b) Desk review (refer Section D.1 of this report) of Monitoring Report and corresponding ER sheet by verification team and planning of on-site audit (including sampling approaches (refer Section D.4 of this report to be applied)).
- c) On-site audit (refer Section D.2 of this report) by verification team consistent of Team Leader and all Technical Experts, as a minimum.
- d) Follow up activities e.g., interviews (refer Section D.3 of this report)
- e) Reporting and closure of findings (CARs/CLs/FARs) and preparation of draft verification report (refer Section D.5 of this report).
- f) Independent technical review (refer Section D of this report) of the draft verification report and final/revised documentation (e.g., Monitoring Report, corresponding ER sheet and evidence).
- g) Reporting and closure of TR comments/findings (refer Section D.5 of this report) (CARs/CLs/FARs) and final approval for the decision made (refer Section E and F of this report).
- h) Issuance of final verification report to contracted PD (or authorized representatives) and submission of request for issuance, as appropriate.

### **Verification Conclusion**

Based on the outcome of the verification process of the GS PA "Altaca Meram Biogas Plant" for the monitoring period 01/07/2022 – 30/06/2024 (including both dates), the VVB confirms that the implementation of referenced registered PA is complying with applicable CDM and GS4GG rules and regulations as stated in the Monitoring Report Version 6.0, dated 15/04/2025. The GHG emission reductions were calculated in line with the baseline and monitoring methodology, The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste/06/, and the monitoring plan contained in the registered PDD/01/.

Earthood Services Limited (hereafter to be referred as "Earthood") is able to certify that the emission reductions from the registered PA (GS 5920) "Altaca Meram Biogas Plant" for the monitoring period 01/07/2022 – 30/06/2024 (including both dates) amount to 144,349 tCO<sub>2</sub>e. Therefore, this is being submitted for request for issuance, as per GS4GG/7//8//9//10/ and UNFCCC procedures/12/.

## **SECTION B. Verification team, technical reviewer and approver**

### **B.1. Verification team members**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Validation findings
1.	Team Leader (GS approved auditor)	IR	Chaudhary	Anjali	Central office	Y	Y	Y	Y
2.	TA Expert (TA 1.1 and 13.2)	IR	Singh	Kaviraj	Central office	Y	Y	Y	Y
3.	Verifier	IR	Kaushik	Vardhan	Central office	Y	N	N	Y
4.	Trainee Verifier	IR	Bakir	Nida	Central office	Y	Y	Y	Y
5.	Local Expert	IR	Agriman	Kubra	Central office	Y	Y	Y	Y

**B.2. Technical reviewer and approver of the verification and certification report**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g., name of central or other office of VVB or outsourced entity)
1.	Technical reviewer	IR	Varshney	Divij	Central Office
2.	Technical Expert to TR (TA 1.1 & 13.2)	IR	Varshney	Divij	Central Office
3.	Approver	IR	Gautam	Ashok Kumar	Central office

**SECTION C. Application of materiality**

**C.1. Consideration of materiality in planning the verification**

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Observational error by monitoring survey staff of PD while recording the responses of farm owners in relation to	Medium	PD has monitored all the data of all the farms during the current MP.	The verification team randomly selected the samples. The records were checked by VVB during the onsite audit. The verification team

	monitored parameters			also interviewed the monitoring/17/.
2.	Error in transferring the recorded data to ER sheet	Medium	The procedure for transferring the recorded information to the spreadsheet may lead to erroneous entries affecting the accuracy of the data. The personnel and PD representatives employ implemented internal QC procedures to ensure prevention of any such potential error thus minimizing the chances of error significantly in the prepared ER calculation sheet /5/.	The interviews conducted during the site visit confirm the regular training is conducted as per the monitoring plan and implementation procedures to reduce the risk of oversight or data transfer. All the values in ER calculation sheet have been verified from supporting documents /17/. No discrepancies were reported due to data collection and recording.
3.	Calculation Errors	Low	The process is manual and therefore there is potential risk of errors / omissions/misstatements.	All calculations were checked by verification team concerning applicable requirements under various documents viz., methodology/6/, PDD/1/

**C.2. Consideration of materiality in conducting the verification**

All errors were individual errors and no extrapolation of errors in the final calculation of ERs was required. The verification team confirms that the final ER sheet/5/ are free from material errors with a reasonable level of assurance.

**SECTION D. Means of verification**

**D.1. Desk review**

The verification is performed primarily as a desk review of the documents submitted at various stages of assessments. The review is performed by assessment team using

dedicated protocols (checklists). The assessment team cross checks the information provided in the documents (MR)/4/ and information from sources other than those used, if available, and conducts independent background investigations. Earthood conducted a desk review as under;

- a) A review of the data and information presented to verify their completeness.
- b) A review of the monitoring plan (as described in PDD/1/) the monitoring methodology/6/ including applicable tool(s) and, where applicable, the applied standardized baseline, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures.
- c) A review of calculations and assumptions made in determining the SDG outcomes, GHG data and emission reductions/5/.
- d) An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of SDG outcomes and emission reductions.

The list of documents reviewed during verification is provided under Appendix 3 of this report.

**D.2. On-site inspection**

As per GS Site Visit and Remote Audit Requirements and Procedures – V2.0 para 3.2.2 “A physical site visit by VVB is mandatory at the first verification of a project”/8/. The assessment involves first verification of the project activity therefore the assessment team conducted a physical site visit from 04/07/2024 to 05/07/2024. The assessment team held follow up interviews with the project representatives using online platforms such as Microsoft team to reach a reasonable level of assurance on implementation status of the project activities.

Activity performed on-site	Site location	Date	Team member
1. Opening Meeting: Introduction, scope and objective of work, roles and responsibilities of audit team. 2. Project boundary and emission sources included in the project boundary for new farms. 3. Technology, Location and Implementation of the project activity. 4. Monitoring plan (compliance of monitoring arrangements described in PDD, QA/QC procedures, responsibility of implementation of monitoring plan, data recording & storage procedures) 5. Signed contracts, start date, operational date, number of animals, transportation of manure and manure quantity of the new and old farms.	Meram, Turkey	04/07/2024 to 05/07/2024	Anjali Chaudhary, Kaviraj Singh, Kubra Agriman

6. Ongoing grievance mechanism and feedback.			
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**D.3. Interviews**

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Demirkol	M. Kemal	PD's Representatives	04/07/2024 to 05/07/2024	Aspects discussed: 1. Project Technology 2. Project Location, 3. Project Implementation 4. Quality management system 5. Monitoring Plan and data management 6. GHG emission reduction calculation 7. Maintenance, Compliance to regulatory requirements 8. Environmental and social issues 9. Projects contribution to sustainable development.	Anjali Chaudhary, Kaviraj Singh, Kubra Agriman
2.	Koç	Engin				
3.	Meral	Arzu				
4.	Dinç	Hasan	Village Head of Çamaklı			

S. No.	Name of Farm	Type Of Farm	Team Member
1.	Dursunoğlu	New Cattle Farm	Anjali Chaudhary, Kaviraj Singh, Kubra Agriman
2.	Yaşar Tekin	New Cattle Farm	
3.	Duranlar	New Cattle Farm	
4.	Celalettin Hakan Katırcı	New Cattle Farm	
5.	Çiftçioğlu	New Cattle Farm	
6.	Sibel Mest	Old Cattle Farm + Old Poultry Farm	
7.	İsmail Ördek Yemcilik ve Nakliyat	Old Cattle Farm + Old Poultry Farm	
8.	Es-tav	New Poultry Farm	
9.	Oytun Yumurta	New Poultry Farm	
10.	Tekkeliöğlü	New Poultry Farm	
11.	NUR TARIM	New Poultry Farm	
12.	Egline	New Poultry Farm	
13.	Dervet Hayvancılık	Old Poultry Farm	
14.	Azim Tavukçuluk	Old Poultry Farm	
15.	Ceren Hayvancılık	Old Poultry Farm	

Name of the farm’s representatives was not added as they did not provided the consent for including their name in the verification report.

**D.3.1. Type of questions asked to Farm owners by the Verification Team members**

Following questions are asked to the Farm owners for the verification of samples:

No.	Questions asked by Team member
1.	What is the type of Farm?
2.	What is the baseline scenario for waste management?
3.	What is the frequency of the waste sent to the Toros Biogas Facility?
4.	How long has the farm is operational?
5.	How long has the farm had an agreement with Toros?
6.	What is the maximum and current number of animals on the farm?
7.	Type of Manure?
8.	What is the amount of waste sent by the farm?
9.	What is the depth of the lagoon?

**D.4 Sampling approach**

**PD’s Sampling Approach:**

No sampling approach was followed by the PD.

**VVB’s Sampling Approach:**

The assessment team applied sampling during the current verification in accordance with para 27 of CDM Standard for Sampling and surveys for CDM project activities and programmes of activities, version 9.0/14/.

As outlined in the registered PDD/1/, the project initially encompassed 13 farms, consisting of 5 cattle and 8 poultry farms. However, during the 2022 period, 10 farms (4 cattle and 6 poultry) were active but later exited the contract within the current monitoring period (MP). Additionally, 8 new farms were incorporated during the current MP. Consequently, a total of 11 farms were associated with the project during this period. An on-site visit was conducted, during which all 11 active farms, along with 4 farms that had been excluded from the contract, were inspected.

**D.5 Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised**

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	-	CAR 06	-
Compliance of the project implementation and operation with the registered PDD	-	-	FAR 01*
Post-registration changes	-	-	-
Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines	CL 04	-	-
Compliance of monitoring activities with the registered monitoring plan	CL 01	CAR 04	-
Compliance with the calibration frequency requirements for measuring instruments	-	CAR 03	-
Implementation of Sampling Plan	-	-	-
Assessment of data and calculation of emission reduction or net removal	CL 02	CAR 01 CAR 02 CAR 05	-
Assessment of reported sustainable development co-benefits	-	-	-
Global stakeholder consultation	-	CAR 07	-
Safeguards Reporting	-	-	-
Compliance with other GHG emission trading programs	-	-	-
Others (Site visit, Cover page, etc.)	CL 03	-	-
<b>Total</b>	<b>04</b>	<b>07</b>	<b>01</b>

\*FARs raised during the validation assessment have been addressed during the current verification

**SECTION E. Verification findings**

**E.1. Compliance of the monitoring report with the monitoring report form**

<b>Means of verification</b>	VVB checked from the Gold Standard website that the prescribed form has been used for preparing the Monitoring Report/3.a/. The PD used the Gold Standards for Global Goals latest MR template version 1.1/3.a/ available on the GS webpage and all the details were filled as per the MR template filling guidelines/3.b/.
<b>Findings</b>	No findings were raised.
<b>Conclusion</b>	The verification team confirms the compliance of the monitoring report with the latest version of the GS monitoring report template and the instructions therein for filling out the form.

**E.2. Remaining forward action requests from validation and/or previous verifications**

One FAR was issued during the design certification, which has been raised and resolved in the current verification. Please refer to FAR#01 in Appendix 4 of this report for details.

**E.3. Compliance of the project implementation and operation with the registered project design document**

<b>Means of verification</b>	<p>The project activity involves electricity generation from renewable energy by capturing biogas from animal manure and agricultural waste through anaerobic digestion. The boundary of the project activity referred in this report is confined to the geographical boundary of Türkiye, as a host country.</p> <table border="1" style="margin-left: 40px;"> <tr> <td>GS ID of PA</td> <td>GS 5920</td> </tr> <tr> <td>Title of PA</td> <td>Altaca Meram Biogas Plant</td> </tr> <tr> <td>Project Developer</td> <td>GTE KARBON SUSTAINABLE ENERJİ EĞİTİM DANISMANLIK VE TİCARET A.Ş.</td> </tr> <tr> <td>Project Owner</td> <td>TOROS MERAM YENİLENEBİLİR ENERJİ ÜRETİM A.Ş.</td> </tr> </table> <p><b>Location:</b></p> <p>The project activity is located at 28900 block, plot 4, Çomaklı, Meram district, Konya Province within the geographical boundary of the host country Türkiye. The location mentioned under section A.2 of the MR/4/ has been consistent with the registered PDD/1/. Also, the assessment team has confirmed that during the on-site visit/17/.</p> <p><b>Technology:</b></p> <p>The project activity consists of following units along with the installed technologies, this was confirmed from the manufacturer's specifications of the equipment and instruments/25//32//33/:</p> <ol style="list-style-type: none"> <li>1. Waste collection unit             <ul style="list-style-type: none"> <li>• Weighbridges</li> </ul> </li> </ol> <table border="1" style="margin-left: 40px;"> <tr> <td>Equipment name</td> <td>Weighbridge</td> </tr> <tr> <td>Brand</td> <td>Tunaylar</td> </tr> </table>	GS ID of PA	GS 5920	Title of PA	Altaca Meram Biogas Plant	Project Developer	GTE KARBON SUSTAINABLE ENERJİ EĞİTİM DANISMANLIK VE TİCARET A.Ş.	Project Owner	TOROS MERAM YENİLENEBİLİR ENERJİ ÜRETİM A.Ş.	Equipment name	Weighbridge	Brand	Tunaylar
GS ID of PA	GS 5920												
Title of PA	Altaca Meram Biogas Plant												
Project Developer	GTE KARBON SUSTAINABLE ENERJİ EĞİTİM DANISMANLIK VE TİCARET A.Ş.												
Project Owner	TOROS MERAM YENİLENEBİLİR ENERJİ ÜRETİM A.Ş.												
Equipment name	Weighbridge												
Brand	Tunaylar												

Model	Pi-Bridge
Capacity	60 tons

- Data control/storage system
- 2. Waste preparation/feed unit
  - Equalization tank
  - Vegetative waste stock area
  - Central pumping system

Equipment Name	Feed pumps
Brand	Netzsch
Model	NM125BY02S12V
Electrical Power	60 m <sup>3</sup> /hr
Quantity	2 (including spare)

3. Anaerobic Digestion unit

- Digestors
 

All the biodigesters are built from reinforced concrete, which is C30 class concrete. The inner surfaces of the biodigesters walls are waterproof. The biodigester facades are filled with healthy rockwool panels to minimize their heat. In each biodigester, there are 4 pedal tips in small cycle. In the overflow eyes, there are 1 propeller ends. The volumes of biodigesters are as follows:

Biodigester No.	Volume in m <sup>3</sup>
R-201	12,000
R-202	11,000
R-203	11,000
R-204	11,800
R-205	12,200

- Gas storage unit
- Desulfurization unit
- Early warning system
- Temperature control system

4. Cogeneration unit

- Cogeneration

Equipment Name	Gas Engines
Brand	Jenbacher
Model	4.20
Electrical Power	1.501 MWe
Quantity	4

Electricity Meter	Main meter	Backup meter
Brand	Landis	Makel
Model	GYR E550	C 520

- Gas treatment system
- Flare system

Equipment Name	Flare
Brand	Ariş Enerji
Type	Elevated Flare
Capacity	2,500 Nm <sup>3</sup> /h
Combustion Temperature	800 degC
Min. Pressure	20 mBar
Min. Methane Rate	35%

	<p>5. Fertilizer Dewatering/Hygenization unit</p> <ul style="list-style-type: none"> <li>• Post-digestion tanks</li> <li>• Hygenization unit</li> <li>• Separator</li> </ul> <p>6. Automation system</p> <p>7. Product Storage Area</p> <ul style="list-style-type: none"> <li>• Liquid fermented area</li> <li>• Solid fermented area</li> </ul> <p><b>Ownership:</b> The contract agreement between the project owner and project developer/34/ states the procedures, roles, responsibilities, and deliverables for the project activity along with terms and conditions of the contract. However, the contract/34/ does not specifically state the full ownership of carbon rights or GS-VERs. Thus, the assessment team verifies the ownership of the carbon rights generated from this project activity by interviewing the representatives of project owner and project developer during the on-site audit/17/. The representatives of the project developer (GTE Karbon Sustainable Enerji Egitim Danismanlik Ve Ticaret A.S.) confirms that the project owner (Toros Meram Yenilenebilir Enerji Üretim A.Ş.) is sole owner of all the certificates involving the project activity, including the carbon rights of this project activity.</p> <p><b>Implementation status:</b> The project activity was supposed to start its operation from 01/01/2021, as per the registered PDD/1/. However, due to the delay in acquiring the certificate from the national body to use the building and registration process, the project activity started its operation on 01/07/2022. Thus, the same has been confirmed as the start date of the crediting period. The crediting cycle length of the proposed activity is 5 years, and the type of crediting period is renewable twice in accordance with para 5.1.48 of Principles and Requirements v1.2/9/.</p> <p>The emission reductions being claimed during this monitoring period are less than the estimated emission reductions in the respective PDD, as given in the table below for comparable estimated VERs in the PDD for the corresponding period:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Monitoring Period</th> <th style="text-align: center;">Estimated ERs (tCO2)</th> <th style="text-align: center;">Actual ERs (tCO2)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">01/07/2022 – 30/06/2024</td> <td style="text-align: center;">220,554</td> <td style="text-align: center;">144,349</td> </tr> </tbody> </table> <p>The verification team considers the project description as contained in the PDD/1/ complete and accurate. The PDD complies with applied methodologies and tools. The monitoring report/4/ was compared and verified against the description provided in the PDD/1/ and found to be correct.</p> <p><b>Grievance Mechanism</b> The grievance mechanism includes grievance expression books located at nearest Mukhtars (Nearest villages to the plant: Boyalı, Çomaklı, Borutoklu), as verified by the VVB during the site visit. No grievances were received during the current monitoring period, as confirmed from the grievance logbooks/40/.</p>	Monitoring Period	Estimated ERs (tCO2)	Actual ERs (tCO2)	01/07/2022 – 30/06/2024	220,554	144,349
Monitoring Period	Estimated ERs (tCO2)	Actual ERs (tCO2)					
01/07/2022 – 30/06/2024	220,554	144,349					
<b>Findings</b>	No findings were raised.						

<b>Conclusion</b>	The verification team can confirm that all physical features (technology, project equipment, and monitoring equipment) of the PA were in place and that the project owner operated the project activity in accordance with the registered PDD/1/ during the current monitoring period based on the information verified through the on-site audit and interviews/17/.
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**E.4. Post-registration change**

**E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents**

Not Applicable

**E.4.2. Corrections**

Not Applicable

**E.4.3. Changes to the start date of the crediting period**

The start date of the crediting period has been changed to 01/07/2022 (from 01/01/2021) due to the delay in acquiring the certificate from the national body to use the building. As per section 3.3 of the Design Change Request Requirements and Procedure Ver 2.0, para 3.3.1.c states *“In case the revised start date of the crediting period is before the date of Project Design Certification, a certified project activity is required to request approval for the changes summarised in the Table 1 below”*. Since the start date of crediting period has been changed postponed by 18 months from the start date proposed in the PDD and still the date is before the date of design certification. Thus, the requirement is to justify the following points of table 1 of Design Change Request Requirements and Procedure Ver 2.0.

*“Prior to or at the time of first verification, the project shall:*

- i. Demonstrate that no changes have occurred to the project activity that would result in a less conservative baseline or update the baseline using conservative data.*
- ii. Demonstrate that substantive progress has been made by the project developer to start the project activity.”*

No changes in the baseline scenario were confirmed by the assessment team during the onsite visit by interviewing the farm’s representatives, stakeholder (village head) and aggregators of agricultural farms. The manure and waste were being disposed in the lagoons during the delay of this project activity.

PD has demonstrated that the start date of operations was delayed due to several factors, such as acquiring permission for using the building for manure management and electricity generation, along with completing the documents for registration of the project activity and procuring and implementing of the equipment and instruments.

**E.4.4. Inclusion of monitoring plan**

Not Applicable

**E.4.5. Permanent changes from registered monitoring plan, monitoring methodology or standardized baselines**

Not Applicable

**E.4.6. Changes to the project design**

Not Applicable.

**E.4. 7. Changes specific to afforestation and reforestation project activities**

Not Applicable.

**E.5. Compliance of the registered monitoring plan with the applied methodologies including applicable tool and standardized baseline**

<b>Means of verification</b>	<p>The monitoring plan as contained in the PDD/1/ was reviewed against the monitoring requirements of the applied methodology, The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste/6/ with reference to the technologies involved. Based on this review, it was found that monitoring plan contained in PDD/1/ includes all required parameters to be monitored in the context of the project design and allows for proper determination of emission reductions in accordance with the PDD/1/ and applied methodology The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste /6/.</p> <p>The review of applied methodology and monitoring plan establishes that the monitoring plan is consistent with the applied methodology.</p>
<b>Findings</b>	No findings were raised.
<b>Conclusion</b>	The monitoring plan is in line with the approved methodology The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste/6/, that is included in the registered PDD/1/. The monitoring plan is in accordance with the applied methodology/6/ that is included in the PDD/1/.

**E.6. Compliance of monitoring activities with the registered monitoring plan**

**E.6.1. Data and parameters fixed ex ante or at renewal of crediting period**

Parameter	Value of the ex-ante parameter	Assessment

<p><b>EF<sub>grid</sub>:</b> <b>Grid emission factor</b></p>	<p>0.5552 tCO<sub>2</sub>/MWh</p>	<p>The value applied for this parameter has been calculated as per equation 16 of the CDM Tool 07/19/, where Build and Operating margin has been sourced from the Ministry of Energy and Natural Resources/18/ of Turkey. The parameter is found to be in line with the registered PDD/01/ and validation report/02/. The parameter is consistent between the MR/04/ and ER calculation sheet/05/. Hence, found acceptable.</p>
<p><b>VS<sub>LT</sub>:</b> <b>Default value for the volatile solid excretion per day on a dry-matter basis for a defined livestock population</b></p>	<p>1,642.5 (Cattle) 7.3 (Chicken)  kg- dm/animal/year</p>	<p>The values of this parameter have been sourced from IPCC 2006, Volume 4 (Agriculture, Forestry and Other Land Use), Chapter 10 (Emissions from Livestock and Manure Management), Table 10A-4 and Table 10A-9/20/. The value is found to be in line with the PDD/01/ and validation report/02/. The parameter is consistent between the MR/4/ and ER calculation sheet/5/. Hence, found acceptable.</p>
<p><b>D<sub>CH<sub>4</sub></sub>:</b> <b>Density of CH<sub>4</sub></b></p>	<p>0.00067 t/m<sup>3</sup></p>	<p>The default value has been applied for this parameter, which is sourced from the applied GS methodology/06/. The value is found to be in line with the PDD/01/ and validation report/02/. The parameter is consistent between the MR/4/ and ER calculation sheet/5/. Hence, found acceptable.</p>
<p><b>EF<sub>CH<sub>4</sub>,default</sub>:</b> <b>Default emission factor for the fraction of CH<sub>4</sub> produced that leaks from the anaerobic digester</b></p>	<p>0.028</p>	<p>The default value (for Digesters with steel or lined concrete or fiberglass digesters and a gas holding system (egg shaped digesters) and monolithic construction) has been applied for this parameter, which is sourced from the applied CDM Tool 14: Project and leakage emissions from anaerobic digesters, v2.0/21/. The value is found to be in line with the PDD/01/ and validation report/02/. The parameter is consistent between the MR/4/ and ER calculation sheet/5/. Hence, found acceptable.</p>
<p><b>GWP<sub>CH<sub>4</sub></sub>:</b> <b>Global Warming Potential for CH<sub>4</sub></b></p>	<p>28 tCO<sub>2</sub>e/tCH<sub>4</sub></p>	<p>The value has been sourced from the IPCC 5<sup>th</sup> Assessment Report/22/, as per the applied methodology/06/. The value is found to be in line with the PDD/01/ and validation report/02/. The parameter is consistent between the MR/4/ and ER calculation sheet/5/. Hence, found acceptable.</p>
<p><b>f<sub>CH<sub>4</sub>,default</sub>:</b> <b>Default value for the</b></p>	<p>0.6 m<sup>3</sup> of CH<sub>4</sub> per m<sup>3</sup> of biogas</p>	<p>The default value has been applied for this parameter, which is sourced from the</p>

<b>volatile solid excretion per day on a dry-matter basis for a defined livestock population</b>		applied CDM Tool 14: Project and leakage emissions from anaerobic digesters, v2.0/21/. The value is found to be in line with the PDD/01/ and validation report/02/. The parameter is consistent between the MR/4/ and ER calculation sheet/5/. Hence, found acceptable.
<b><math>\eta_{\text{flare,m}}</math>: Flare efficiency</b>	50%	The default value has been applied for this parameter, which is sourced from para 18 of the applied CDM Tool 06: Project emissions from flaring, v4.0/23/. The value is found to be in line with the PDD/01/ and validation report/02/. The parameter is consistent between the MR/4/ and ER calculation sheet/5/. Hence, found acceptable.
<b>EF_SO2: SO2 emission factor</b>	4.85 kg/MWh	The value has been sourced from UNFCC report on national inventory of Turkey/24/. The value is found to be in line with the PDD/01/ and validation report/02/. The parameter is consistent between the MR/4/ and ER calculation sheet/5/. Hence, found acceptable.
<b>EF_NOx: NOx emission factor</b>	1.05 kg/MWh	The value has been sourced from UNFCC report on national inventory of Turkey/24/. The value is found to be in line with the PDD/01/ and validation report/02/. The parameter is consistent between the MR/4/ and ER calculation sheet/5/. Hence, found acceptable.

**E.6.2. Data and parameters monitored**

**Electricity generated using biogas in year y, EG<sub>d,y</sub>**

<b>Means of verification</b>	<b>Criteria/Requirements</b>	<b>Assessment/Observation</b>
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes
	Monitoring equipment	This parameter is being measured via electricity meters. Two meters (Main and Backup) are installed at the site. The information of the meters are as follows, which was confirmed during the on-site audit/17/ and manufacturer's specifications/25/:

		Parameters	Main Meter	Backup Meter
		Brand	Landis	Makel
		Model	GYR E550	C 520 AMT.2556 X/5
		Accuracy Class	1S	-
		Serial No.	40304895	75002145
		Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	The accuracy class of the meter is 1S which is confirmed by the assessment team through manufacturer's specification/25/.	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes		
	Calibration frequency /interval:	Every 10 years/26/		
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes, the calibration frequency is as per Measurement and Measuring Instruments Inspection Regulation of Turkey/26/.		
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Yes. The meters are maintained and calibrated by Turkish government-owned corporation, Turkish Electricity Transmission company (TEİAŞ).		
	Is(are) calibration(s) valid	Yes		

	for the whole reporting period?	
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Yes
	How were the values in the monitoring report verified?	The applied value of this parameter was confirmed from the monthly EPIAS records/27/. 2022: 9,816.1 MWh 2023: 26,215.2 MWh 2024: 11,222 MWh  Total: 47,253.3 MWh  The values are consistently reported in the MR/4/ and ER sheet/5/.
	If applicable, has the reported data been cross-checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	The Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Maximum methane producing potential of the volatile solid generated by animal type LT,  $B_{0,LT}$  for Poultry manure**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.

	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The applied value of 0.39 m <sup>3</sup> CH <sub>4</sub> /kg dm of this parameter is sourced from table 10.16A, chapter 10, volume 4 of the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories/28/. The value has been found consistent with the MR/4/ and ER sheet/5/.
	If applicable, has the reported data been cross-checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled	

and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.

**Maximum methane producing potential of the volatile solid generated by animal type LT, B<sub>0,LT</sub> for Dairy Cow Manure**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	The value is taken from published sources/28/. The parameter value should be updated on latest available public data source.
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of	N.A.

	calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The applied value of 0.24 m <sup>3</sup> CH <sub>4</sub> /kg dm of this parameter is sourced from table 10.16A, chapter 10, volume 4 of the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories/28/. The value has been found consistent with the MR/4/ and ER sheet/5/.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the	Not Applicable

	CDM Project Standard?	
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Annual Average ambient temperature at project site, T**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.

	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The applied value of 11.7 degC for this parameter is sourced from Official Climate Statistics published by Turkish State Meteorological Service /29/. The value has been found consistent with the MR/4/ and ER sheet/5/.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation	Not Applicable

	been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Methane conversion factor, MCF<sub>j</sub>**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration	N.A.

	frequency /interval:	
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The applied value of 0.67 (i.e. 67%) of this parameter is sourced from table 10.17 (Uncovered anaerobic lagoon for Cool Temp. Dry condition), page 10.68 chapter 10, volume 4 of the 2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories/28/. The value has been found consistent with the MR/4/ and ER sheet/5/.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.

	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Reduction of SO<sub>2</sub> and NO<sub>x</sub> emissions due to implementation of project activity that would otherwise be emitted by thermal power plants, Air Quality**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.

	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	<p>The values applied for this parameter are as follows:</p> <ul style="list-style-type: none"> <li>Total actual SO<sub>2</sub> emission reduction is 229.2 tonnes</li> <li>Total actual NO<sub>x</sub> emission reduction is 49.6 tonnes</li> </ul> <p>These values are based on two parameters:</p> <ul style="list-style-type: none"> <li>Electricity generated using biogas (EG<sub>d,y</sub>) during this MP, which has been already assessed in the table mentioned above.</li> <li>Emission factor of SO<sub>2</sub> and NO<sub>x</sub>, which is calculated based on the data</li> </ul>

		<p>of SO2 and NOX emissions related to the total electricity generated in 2020 for Turkey. These values were fixed at the validation stage and found consistent with the PDD/1/. The assessment team has reviewed the values and calculation and found it to be consistent with the provided source. The values of this parameter are consistently stated in the MR/4/ and ER sheet/5/.</p>
	If applicable, has the reported data been cross-checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Biogas (total biogas goes to gas engines), Vf**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Monitored continuously and aggregated value to be recorded weekly.
	Is measuring and reporting frequency in	Yes.

	accordance with the monitoring plan and monitoring methodology? (Yes / No)																									
	Monitoring equipment	The parameter is being measured through flowmeters located at the exit of the digesters. The details of metering instrument are as follows:																								
		<table border="1"> <thead> <tr> <th>Digester No.</th> <th>Brand</th> <th>Type</th> <th>Serial No.</th> </tr> </thead> <tbody> <tr> <td>R201</td> <td>Rosemount</td> <td>8600 Vortex Flowmeter</td> <td>13331888</td> </tr> <tr> <td>R202</td> <td>Rosemount</td> <td>8600 Vortex Flowmeter</td> <td>13332126</td> </tr> <tr> <td>R203</td> <td>Rosemount</td> <td>8600 Vortex Flowmeter</td> <td>13331889</td> </tr> <tr> <td>R204</td> <td>Rosemount</td> <td>8600 Vortex Flowmeter</td> <td>13331887</td> </tr> <tr> <td>R205</td> <td>Rosemount</td> <td>8600 Vortex Flowmeter</td> <td>13331886</td> </tr> </tbody> </table>	Digester No.	Brand	Type	Serial No.	R201	Rosemount	8600 Vortex Flowmeter	13331888	R202	Rosemount	8600 Vortex Flowmeter	13332126	R203	Rosemount	8600 Vortex Flowmeter	13331889	R204	Rosemount	8600 Vortex Flowmeter	13331887	R205	Rosemount	8600 Vortex Flowmeter	13331886
	Digester No.	Brand	Type	Serial No.																						
	R201	Rosemount	8600 Vortex Flowmeter	13331888																						
	R202	Rosemount	8600 Vortex Flowmeter	13332126																						
	R203	Rosemount	8600 Vortex Flowmeter	13331889																						
	R204	Rosemount	8600 Vortex Flowmeter	13331887																						
R205	Rosemount	8600 Vortex Flowmeter	13331886																							
Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	Yes, the accuracy class of the meters is class C (0.5), which is as per the monitoring plan/1/.																									
Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes																									
Calibration frequency /interval:	10 years																									

	<p>Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?</p>	<p>Yes, the calibration frequency is as per Measurement and Measuring Instruments Inspection Regulation of Turkey/26/.</p>
	<p>Is the calibration of measuring equipment carried out by an accredited person or institution?</p>	<p>Yes</p>
	<p>Is(are) calibration(s) valid for the whole reporting period?</p>	<p>Yes</p>
	<p>Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?</p>	<p>Yes</p>
	<p>How were the values in the monitoring report verified?</p>	<p>The value applied for this parameter is 22,663,794 m<sup>3</sup>, which is the aggregated value for the entire MP. The assessment has verified the daily data of biogas generation from 5 biodigesters/31.a/ and found it consistent with the MR/4/ and ER sheet/5/.</p>
	<p>If applicable, has the reported data been cross- checked with other available data?</p>	<p>N.A.</p>
	<p>Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?</p>	<p>Data management system was found to be reliable and appropriate.</p>
	<p>In case project participants have temporarily not monitored the</p>	<p>Not Applicable</p>

	parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**the flow rate of the residual gas to the flare,  $F_{RG,m}$**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Continuously
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	The value of this parameter is being measured by a combined meter with the following details: Manufacturer: Ariş Enerji A.Ş Code: FL - 601 Capacity: 2500 Nm3/h Minimum Burning Pressure: 20 mBar Minimum Methane Ratio: 35% Combustion Temperature: 800 °C
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per	N.A.

	the manufacturer's specification?	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes
	Calibration frequency /interval:	10 years
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes, the calibration frequency is as per Measurement and Measuring Instruments Inspection Regulation of Turkey/26/.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Yes
	Is(are) calibration(s) valid for the whole reporting period?	Yes
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Yes
	How were the values in the monitoring report verified?	The value applied for this parameter is 0 m3, as the flare unit was not used during this MP. The assessment team confirms that the reading at the start and end of the monitoring period are same.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of	Data management system was found to be reliable and appropriate.

	data and reporting of emission reductions and are necessary QA/QC processes in place?	
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Operational status of biogas destruction devices, Status of biogas destruction device**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Continuous
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply	N.A.

	with local/national standards, or as per the manufacturer's specification?	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value of 0 or 1
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting	Data management system was found to be reliable and appropriate.

	of emission reductions and are necessary QA/QC processes in place?	
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Volumetric fraction of greenhouse gas i in a time interval t on a dry basis,  $V_i, t, db$**

Means of verification	Criteria/Requirements	Assessment/Observation								
	Measuring /Reading /Recording frequency	Measured continuously and recorded in every 5 minutes.								
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.								
	Monitoring equipment	The value of this parameter is being measured through the gas analyser. The details of the gas analyser is as follows: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Brand</td> <td>AwiFLEX</td> </tr> <tr> <td>Model</td> <td>Cool+</td> </tr> <tr> <td>Type</td> <td>Gas analyser</td> </tr> <tr> <td>Serial number</td> <td>3035</td> </tr> </table>	Brand	AwiFLEX	Model	Cool+	Type	Gas analyser	Serial number	3035
	Brand	AwiFLEX								
Model	Cool+									
Type	Gas analyser									
Serial number	3035									
Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does	N.A.									

	not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	10 years
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes, the calibration frequency is as per Measurement and Measuring Instruments Inspection Regulation of Turkey/26/.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Meter was calibrated during its production in 2020 /33.b/.
	Is(are) calibration(s) valid for the whole reporting period?	Yes
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Yes
	How were the values in the monitoring report verified?	The value of 60% for the parameter has been applied for this parameter, which is the average value of the whole MP. This value has been verified from the gas analyser's data/33.c/, which was

		recorded in every 5 mins. The value applied has been consistently mentioned in the MR/4/ and ER sheet/5/.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Manufacturer’s flare specifications for temperature, flow rate and maintenance schedule, SPECflare**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Monitored continuously and reported on a weekly basis.
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.

	Monitoring equipment	The value of this parameter is being measured by a combined meter with the following details: Manufacturer: Arış Enerji A.Ş Code: FL - 601 Capacity: 2500 Nm3/h Minimum Burning Pressure: 20 mBar Minimum Methane Ratio: 35% Combustion Temperature: 800 °C
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer’s specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	10 years
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer’s specifications?	Yes, the calibration frequency is as per Measurement and Measuring Instruments Inspection Regulation of Turkey/26/.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Meter was calibrated during its production in 2020 /33.b/.
	Is(are) calibration(s) valid	Yes

	for the whole reporting period?	
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value applied for this parameter are as follows: Minimum Burning Pressure: 20 mBar Minimum Methane Ratio: 35% Combustion Temperature: 800 °C The values have been verified from the manufacturer’s specification/32/.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Number of personnel certified/trained during operation phase, Quality of Employment**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring	N.A.

	equipment carried out by an accredited person or institution?	
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value applied for this parameter is 25, which is number of people trained during the current MP. The value has been verified from training records/36/, which includes the name of personnel, training type, training conductors, and dates and duration of training.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied). The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Annual Average ambient temperature at project site, T**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried	N.A.

	out by an accredited person or institution?	
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value of 11.7 °C for the parameter was sourced from the Turkish State Meteorological Service/37/
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Amount of biogas collected at the digester outlet in year y,  $Q_{biogas,y}$**

Means of verification	Criteria/Requirements	Assessment/Observation
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	Measuring /Reading /Recording frequency	Monitored continuously and aggregated value to be recorded monthly and yearly.			
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.			
	Monitoring equipment	The parameter is being measured through flowmeters located at the exit of the digesters. The details of metering instrument are as follows:			
		Digester No.	Brand	Type	Serial No.
		R201	Rosemont	8600 Vortex Flowmeter	13331888
		R202	Rosemont	8600 Vortex Flowmeter	13332126
		R203	Rosemont	8600 Vortex Flowmeter	13331889
		R204	Rosemont	8600 Vortex Flowmeter	13331887
	R205	Rosemont	8600 Vortex Flowmeter	13331886	
Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	Yes, the accuracy class of the meters is class C (0.5), which is as per the monitoring plan/1/.				
Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes				
Calibration frequency /interval:	10 years				

	<p>Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?</p>	<p>Yes, the calibration frequency is as per Measurement and Measuring Instruments Inspection Regulation of Turkey/26/.</p>
	<p>Is the calibration of measuring equipment carried out by an accredited person or institution?</p>	<p>Yes</p>
	<p>Is(are) calibration(s) valid for the whole reporting period?</p>	<p>Yes</p>
	<p>Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?</p>	<p>Yes</p>
	<p>How were the values in the monitoring report verified?</p>	<p>The value applied for this parameter is 22,663,794 m<sup>3</sup>, which is the aggregated value for the entire MP. The assessment has verified the daily data of biogas generation from 5 biodigesters/31.a/ and found it consistent with the MR/4/ and ER sheet/5/.</p>
	<p>If applicable, has the reported data been cross- checked with other available data?</p>	<p>N.A.</p>
	<p>Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?</p>	<p>Data management system was found to be reliable and appropriate.</p>
	<p>In case project participants have temporarily not monitored the</p>	<p>Not Applicable</p>

	parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Average technical transmission and distribution losses for providing electricity to source j, k or l in year y,  $TDL_{j,y}$  and  $TDL_{k,y}$  and  $TDL_{l,y}$**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to	N.A.

	different measuring ranges?	
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer’s specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value applied for this parameter is as follows:  Year 2022: 6.2% Year 2023: 5.7% Year 2024: 5.7% The above values are sourced from the annual reports published by EPDK/38/, which is the national energy market regulatory authority of Turkey.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are	Data management system was found to be reliable and appropriate.

	necessary QA/QC processes in place?	
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Total mass of freight transported in freight transportation activity f in monitoring period m, FRf,m**

Means of verification	Criteria/Requirements	Assessment/Observation								
	Measuring /Reading /Recording frequency	Continuously								
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.								
	Monitoring equipment	This parameter is being measured by weigh scale, with the following details: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Type</td> <td>Weighbridge</td> </tr> <tr> <td>Brand</td> <td>Tunaylar</td> </tr> <tr> <td>Model</td> <td>Pi-Bridge</td> </tr> <tr> <td>Capacity</td> <td>60 tons</td> </tr> </table>	Type	Weighbridge	Brand	Tunaylar	Model	Pi-Bridge	Capacity	60 tons
	Type	Weighbridge								
Brand	Tunaylar									
Model	Pi-Bridge									
Capacity	60 tons									
Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment,	N.A.									

	does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	10 years
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes, the calibration frequency is as per Measurement and Measuring Instruments Inspection Regulation of Turkey/26/.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Yes
	Is(are) calibration(s) valid for the whole reporting period?	Yes
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value applied for this parameter is as follows: 92,883.23 (chicken manure) 59,610.00 (cattle manure) The above values are the aggregated values for the current MP. These values were verified from the logbook entries of waste and manure/39/. The

		values has been consistently mentioned in the MR/4/ and ER sheet/5/.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Total mass of freight transported in freight transportation activity f in monitoring period m, FRf\_agricultural waste**

Means of verification	Criteria/Requirements	Assessment/Observation		
	Measuring /Reading /Recording frequency	Continuously		
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.		
	Monitoring equipment	This parameter is being measured by weigh scale, with the following details: <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Type</td> <td>Weighbridge</td> </tr> </table>	Type	Weighbridge
Type	Weighbridge			

		Brand	Tunaylar
		Model	Pi-Bridge
		Capacity	60 tons
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.	
	Calibration frequency /interval:	10 years	
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes, the calibration frequency is as per Measurement and Measuring Instruments Inspection Regulation of Turkey/26/.	
	Is the calibration of measuring equipment carried out by an accredited person or institution?	Yes	
Is(are) calibration(s) valid for the whole reporting period?	Yes		
Is the calibration carried out for a measuring range	N.A.		

	comparable with the range for which measurements have been carried out?	
	How were the values in the monitoring report verified?	The value applied for this parameter is 22,397.39 tonnes of agricultural waste. The applied value is the aggregated values for the current MP. These values were verified from the logbook entries of waste and manure/39/. The values has been consistently mentioned in the MR/4/ and ER sheet/5/.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The equipment used for monitoring the parameter is controlled and calibrated in accordance with registered monitoring plan and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Daily stock of animals in the farm, discounting dead and discarded animals, NAA,LT**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Daily

	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole	N.A.

	reporting period?	
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	<p>The value applied for the parameter is as follows:                  2022: 3,600 (cattle)                  2023: 2,150 (cattle)                  2024: 2,050 (cattle)</p> <p>The values has been verified from the signed agreement and declaration of farm animals/16/.</p> <p>Further, according to Articles 8 and 10 of the 2017 Regulation on Animal Identification and Registration (Official Gazette No. 30157, under Animal Health Law No. 5996)/41/, farm owners are legally required to maintain daily records of livestock numbers, deaths, and animal movements/41/, and must report any deaths within 24 hours to the Ministry of Agriculture and Forestry through the TÜRKVET system/42/. Each animal must be registered with a unique tag, and accurate, traceable record-keeping is mandatory. Non-compliance may result in administrative penalties, thereby reinforcing the reliability and integrity of the farm-level data used in this project.</p>
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as	Not Applicable	

	stipulated by Appendix 1 to the CDM Project Standard?	
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Daily stock of animals in the farm, discounting dead and discarded animals, NAA,LT**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Daily
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.

	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	<p>The value applied for the parameter is as follows:                      1,994,000 (2022) (poultry)                      1,491,600 (2023) (poultry)                      1,222,000 (2024) (poultry)</p> <p>The values has been verified from the signed agreement and declaration of farm animals/16/.                      Further, according to Articles 8 and 10 of the 2017 Regulation on Animal Identification and Registration (Official Gazette No. 30157, under Animal Health Law No. 5996)/41/, farm owners are legally required to maintain daily records of livestock numbers, deaths, and animal movements/41/, and must report any deaths within 24 hours to the Ministry of Agriculture and Forestry through the TÜRKVET system/42/. Each animal must be registered with a unique tag, and accurate, traceable record-keeping is mandatory. Non-compliance may result in administrative penalties, thereby reinforcing the reliability and</p>

		integrity of the farm-level data used in this project.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Number of days treatment plant was operational in year y, ndy**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Daily
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the	N.A.

	accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value applied for this parameter is 365 number of days.
	If applicable, has the reported data been cross- checked with	N.A.

	other available data?	
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Fraction of manure handled in system j in the project activity, Total number of farms, MS%j**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring	N.A.

	equipment comply with local/national standards, or as per the manufacturer's specification?	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value of 100% has been applied for this parameter.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of	Data management system was found to be reliable and appropriate.

	data and reporting of emission reductions and are necessary QA/QC processes in place?	
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Total number of farms, N**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.

	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The values applied for this parameter is as follows: 2022: 14 (5 cattle farm and 9 chicken farm) 2023: 10 (4 cattle farm and 6 chicken farm) 2024: 9 (3 cattle farm and 6 chicken farm)
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of	Data management system was found to be reliable and appropriate.

	data and reporting of emission reductions and are necessary QA/QC processes in place?	
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Mass of manure (manure taken from animal farms to fed-up the anaerobic digesters) disposed outside project boundary, Qdm**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per	N.A.

	the manufacturer's specification?	
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	N.A.
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value of 0 kg has been applied for this parameter, as there is no disposal of manure outside the project boundary.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission	Data management system was found to be reliable and appropriate.

	reductions and are necessary QA/QC processes in place?	
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	Not Applicable
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

**Proper management of waste oil, Other Pollutants**

Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	Annually
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes.
	Monitoring equipment	N.A.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	N.A.
	Is the accuracy valid for the entire	N.A.

	measuring range or do different accuracy levels apply to different measuring ranges?	
	Calibration frequency /interval:	N.A.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	N.A.
	Is the calibration of measuring equipment carried out by an accredited person or institution?	N.A.
	Is(are) calibration(s) valid for the whole reporting period?	N.A.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	N.A.
	How were the values in the monitoring report verified?	The value applied for this parameter is 0, as no waste oil has been disposed during the current MP.
	If applicable, has the reported data been cross- checked with other available data?	N.A.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data management system was found to be reliable and appropriate.
	In case project participants have	Not Applicable

	temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	
<b>Findings</b>	No findings were raised.	
<b>Conclusion</b>	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring results were recorded consistently as per the approved frequency in the monitoring plan. Quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.	

### E.6.3. Implementation of sampling plan

<b>Means of verification</b>	No sampling approach has been applied by the PD. VVB has applied sampling, which has been already explained under section d.4 of this report.
<b>Findings</b>	No findings was raised.
<b>Conclusion</b>	The verification team confirmed that no sampling approach has been applied by the PD.

### E.8. Assessment of data and calculation of SDG impacts

#### E.8.1. Calculation and assessment of SDG outcomes

<b>Means of verification</b>	<p>The equations used were found consistent with the PDD/1/, MR/4/ and the applied methodology /6/</p> <p>For calculation of emission reduction, the following equations has been used, as per equation 33 and 34 of the applied methodology/6/:</p> $ER_y = BE_y - PE_y - LE_y$ <p>Or,</p> $ER_y = \min(\{BE_y - PE_y - LE_y\}, \{MD_y - PE_y - LE_y\})$ <p>Where,  <math>MD_y</math> = Methane captured and destroyed or used gainfully by the project activity.</p> <p>However, since the methane is only being used for electricity generation and no other method of capturing and destruction of methane is present. Thus, the equation 33 of applied methodology/6/ has been used to calculate the ERs:</p>
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$$ER_y = BE_y - PE_y - LE_y$$

Baseline emissions are calculated as per equation 1 of the applied methodology/6/,

$$BE_y = BE_{MSW,y} + BE_{manure,y}$$

Since the project activity only involves manure and agricultural waste and does not involve municipal waste, thus, the baseline emissions from the MSW are not applicable for this project activity and considered zero, 0 ( $BE_{MSW,y} = 0$ )

$$BE_{manure,y} = BE_{CH_4,y} + BE_{N_2O,y} + BE_{elec/heat,y}$$

The above formula for calculating the baseline emissions is as per equation 2 of the applied methodology.

Since the formula of baseline and project emissions as the applied methodology are same. Thus, the net emission calculation will result to 0. Therefore,  $BE_{N_2O,y}$  and  $PE_{N_2O,y}$  are excluded from the emission reduction calculations.

The baseline emissions from the methane, the following formula was used, which is as per equation 3 of the applied methodology:

$$BE_{CH_4,y} = GWP_{CH_4} \times D_{CH_4} \times \sum MCF_j \times Bo_{LT} \times N_{LT} \times VS_{LT,y} \times MS\%_{BL,y}$$

Here,

Option 4, as per the applied methodology was used to calculate  $VS_{LT,y}$ ,

$$VS_{LT,y} = \% \text{ volatile solid} \times nd_y$$

Option 2, as per the applied methodology was used to calculate  $N_{LT}$ ,

$$N_{LT} = \frac{\sum N_{AA,LT}}{365}$$

$$BE_{elec/heat,y} = BE_{EC,y} + BE_{HG,y}$$

Since, there is no heat generation in this project activity, as per the registered PDD/1/. Thus,  $BE_{HG,y}$  has been considered zero.

Baseline emissions from electricity generation has been calculated as per the CDM Tool 05:

$$BE_{EC,y} = \sum EC_{BL,k,y} \times EF_{EC,k,y} \times (1 + TDL_{k,y})$$

Since the factor of transmission distribution losses should only be applied when the electricity is being consumed from the grid. Thus, factor of TDL has been excluded (considered 0%) for this project activity. Thus, the above equation will be reduced to:

$$BE_{EG,y} = EG_{BL,y} \times EF_{CO_2,grid,y}$$

The calculation provided as a sample in MR/4/ has been reviewed and is found consistent with actual calculations applied in ER calculation sheet/5/. The calculations presented in the Monitoring Report/4/ and the corresponding ER sheet/5/ were found appropriate and complying with provisions prescribed in the registered monitoring plan of the PDD/1/ and applied methodology/6/.

**Findings**

No findings were raised.

<b>Conclusion</b>	<p>The verification team verified that:</p> <ul style="list-style-type: none"> <li>• A complete set of data for the monitoring period was available and the verification of each monitoring parameter is elaborated under Section E.6.2 of this report. The complete monitoring data is also presented in the corresponding ER calculations sheet/5/ of final Monitoring Report/4/.</li> <li>• The information provided in the monitoring report was cross checked with other sources, wherever appropriate and available, and such information is also included under Section E.6.2 of this report.</li> <li>• The calculations of baseline emissions as presented in the corresponding ER calculations sheet/5/ of final Monitoring Report/4/ were checked and found to be consistent with the formulae and methods described in the registered monitoring plan of the PDD/1/ and applied methodology/6/.</li> <li>• All assumptions used in the emission calculations were found appropriate and therefore justified.</li> <li>• No standardized baseline was prescribed in the registered PDD/1/.</li> </ul>
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**E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removal by sinks.**

<b>Means of verification</b>	<p>Project emissions are calculated as per equation 13 of the applied methodology/6/,  <math>PE_y = PE_{AD,y} + PE_{Aer,y} + PE_{Comp,y} + PE_{N2O,y} + PE_{EC/FC,y} + PE_{Trans,y} + PE_{Storage,y}</math></p> <p>The following project emissions have been excluded (considered 0) as per the registered PDD/1/:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 2px;"><math>PE_{Aer,y}</math></td> <td style="padding: 2px;">Project activity does not involve aerobic AWMS treatment</td> </tr> <tr> <td style="padding: 2px;"><math>PE_{Comp,y}</math></td> <td style="padding: 2px;">Project activity does not involve composting</td> </tr> <tr> <td style="padding: 2px;"><math>PE_{N2O,y}</math></td> <td style="padding: 2px;">Formula for calculating the <math>BE_{N2O,y}</math> is same as the formula for calculating <math>PE_{N2O,y}</math>, as per the applied methodology/6/.</td> </tr> <tr> <td style="padding: 2px;"><math>PE_{FC,y}</math></td> <td style="padding: 2px;">Project activity does not involve consumption of fossil fuel for heat purpose</td> </tr> <tr> <td style="padding: 2px;"><math>PE_{Storage,y}</math></td> <td style="padding: 2px;">Project activity does not involve storage of manure in outdoor open storage tanks.</td> </tr> </table> <p>Thus, the above equation will reduce to  <math>PE_y = PE_{AD,y} + PE_{EC,y} + PE_{Trans,y}</math></p> <p>Project emissions from electricity consumption (for the whole plant) were calculated as per the CDM Tool 05:</p> $PE_{EC,y} = \sum EC_{PJ,k,y} \times EF_{EL,k,y} \times (1 + TD L_{k,y})$ <p><math>PE_{AD,y} = PE_{Elec,y} + PE_{FC,y} + PE_{CH4,y} + PE_{flare,y}</math></p>	$PE_{Aer,y}$	Project activity does not involve aerobic AWMS treatment	$PE_{Comp,y}$	Project activity does not involve composting	$PE_{N2O,y}$	Formula for calculating the $BE_{N2O,y}$ is same as the formula for calculating $PE_{N2O,y}$ , as per the applied methodology/6/.	$PE_{FC,y}$	Project activity does not involve consumption of fossil fuel for heat purpose	$PE_{Storage,y}$	Project activity does not involve storage of manure in outdoor open storage tanks.
$PE_{Aer,y}$	Project activity does not involve aerobic AWMS treatment										
$PE_{Comp,y}$	Project activity does not involve composting										
$PE_{N2O,y}$	Formula for calculating the $BE_{N2O,y}$ is same as the formula for calculating $PE_{N2O,y}$ , as per the applied methodology/6/.										
$PE_{FC,y}$	Project activity does not involve consumption of fossil fuel for heat purpose										
$PE_{Storage,y}$	Project activity does not involve storage of manure in outdoor open storage tanks.										

	<p><math>PE_{Elec,y}</math> will already come under the project emission, <math>PE_{EC,y}</math>. Thus, considered zero.</p> <p><math>PE_{CH4,y} = Q_{CH4,y} \times EF_{CH4,default} \times GWP_{CH4}</math>                  Where,  <math>Q_{CH4,y} = Q_{biogas,y} \times f_{CH4,default} \times \rho_{CH4}</math></p> <p>As per section B.6 of the MR, anaerobic digesters do not use fossil fuel. Thus, the project emissions from fossil fuel consumption (<math>PE_{FC,y}</math>) are considered zero.</p> <p>Project emissions from flare are calculated as per CDM Tool 06,  <math display="block">PE_{flare,y} = GWP_{CH4} \times \sum F_{CH4,RG,m} \times (1 - \eta_{flare,m}) / 1000</math></p> <p>Here, <math>F_{CH4,RG,m}</math> is calculated as per option A of CMD Tool 08.</p> $F_{CH4,RG,m} = V_{t,db} \times v_{i,t,db} \times \rho_{i,t}$ <p>Project emissions form transportation are calculated as per Option B of CMD Tool 12:</p> $PE_{TR,y} = \sum D_{f,m} \times FR_{f,m} \times EF_{CO2,f} / 1000$ <p>The GS PDD/1/, and applied monitoring methodology/6/ does not prescribe any project emissions to be considered. The on-site visit/17/ conducted, and project design also did not reveal any other potential source to be considered in this regard.</p>
<b>Findings</b>	No findings were raised.
<b>Conclusion</b>	<p>The verification team verified that:</p> <p>a) A complete set of data for the monitoring period was available and the verification of each monitoring parameter is elaborated under Section E.6.2 of this report. The complete monitoring data is also presented in the corresponding ER calculations sheet/5/ of final Monitoring Report /4/.</p> <p>b) The information provided in the monitoring report was cross checked with other sources, wherever appropriate and available, and such information is also included under Section E.6.2 of this report.</p>

**E.8.3. Calculation of leakage GHG emissions**

<b>Means of verification</b>	The leakage emissions has been considered zero, as per the registered PDD/1/.
<b>Findings</b>	No findings were raised.
<b>Conclusion</b>	The verification team verified that the information provided in the monitoring report was cross checked with other sources, wherever

	appropriate and available, and such information is also included under Section E.6.2 of this report.
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**E.8.4. Comparison of actual SDG impacts with estimates in approved PDD**

<b>Means of verification</b>	<p>The table below gives a comparison between the values estimated in the registered PDD/1/ and the values achieved during the current monitoring period in the MR/4/.</p>		
	<b>SDG Targets &amp; Impacts</b>	<b>Values estimated in ex ante calculation of approved PDD for this monitoring period</b>	<b>Actual values achieved during this monitoring period</b>
	SDG 13: Climate Action	220,554 tCO <sub>2</sub> e	144,349 tCO <sub>2</sub> e
	SDG 7: Affordable and Clean Energy	84,056 MWh	47,253 MWh
	SDG 8: Decent Work and Economic Growth	110 number	84 number
	SDG 12: Responsible Consumption and Production	250,390 (chicken manure) 233,600 (cattle manure) 7,300 (agricultural waste)	92,883.23 (chicken manure) 59,610 (cattle manure) 22,397.39 (agricultural)
	<p>As per registered PDD, 110,277 tCO<sub>2</sub>e was expected to be reduced on the yearly basis, which accounts for 220,554 tCO<sub>2</sub>e to be expected value of reduction within the time frame of 01/07/2022 to 30/06/2024 (both days inclusive)/1/. However, based on monitoring data, actual emission reductions so far are only 144,349 tCO<sub>2</sub>e during this monitoring period.</p>		
	<b>Monitoring period</b>		<b>Amount (Tco2e)</b>
	01/07/2022 to 31/12/2022		45,751
	01/01/2023 to 31/12/2023		68,932
01/01/2024 to 30/06/2024		29,666	
<b>Total</b>		<b>144,349</b>	
<p>The actual SDG targets against the anticipated values in the PDD are lower for all the SDGs as tabulated above.</p>			
<b>Findings</b>	No findings were raised.		
<b>Conclusion</b>	<p>The actual emission reductions achieved in the current monitoring period for the PA is lower than the emission reductions as well as for other SDG targets stated in the PDD/1/. Therefore, it has been accepted by the verification team.</p>		

**E.8.5. Calculation of net benefits or direct calculation for each SDG Impact**

Means of verification	SDG	SDG Impact	Baseline Estimate	Project Estimate	Net Benefit
	SDG 13	13.2.2 Reduction in GHGs emissions	157,471	13,121	144,349
	SDG 7	7.2 Renewable energy generation	0	47,253	47,253
	SDG 8	8.5 Increased employment opportunities	0	84	84
	SDG 12	12.4 Efficient consumption and production	0	174,890.62	174,890.62
The calculation methods applied for all the SDG impacts were checked with PDD/1/ and MR/4/. The verification team confirms that the stated figures were checked and found acceptable.					
Findings	No findings were raised.				
Conclusion	<p>The verification team confirms that:</p> <ul style="list-style-type: none"> <li>a) The complete data was available and is duly reported.</li> <li>b) As indicated above, the description with regard to cross-check of reported data is included under respective Parameter (D.6.2 section of this report);</li> <li>c) Appropriate methods and formulae for calculating baseline GHG emissions or baseline net GHG removals, project emissions and leakage emissions were followed.</li> <li>d) Appropriate emission factors, IPCC default factors and other reference values were correctly applied.</li> <li>e) There is no pro-rata approach that was applied in the current monitoring period as the entire monitoring period falls into a period that is after the end of first commitment period of Kyoto Protocol. The total number of VERs achieved during the current monitoring period is 144,349 tCO<sub>2</sub>e.</li> </ul>				

**E.8.6. Remarks on difference from estimated value in registered PDD**

Means of verification	The Monitoring Report/4/ and corresponding ER calculations sheet/5/, show that the actual emission reductions achieved during this monitoring period are less than the estimates provided in GS PDD/1/, thus no further justification was sought.
Findings	No findings were raised.
Conclusion	No justification was sought from the PD because the achievement of emission reductions was lower than what had been estimated.

**E.9. Safeguards Reporting**

Not applicable

**SECTION F. Stakeholder Inputs and Legal Disputes**

**F.1.1. Assessment of all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.**

<b>Means of verification</b>	The grievance mechanism includes grievance expression books located at nearest Mukhtars (Nearest villages to the plant: Boyalı, Çomaklı, Borutoklu), as verified by the VVB during the site visit. No grievances were received during the current monitoring period, as confirmed from the grievance logbooks/40/.
<b>Findings</b>	No findings were raised.
<b>Conclusion</b>	There were no grievances received and no negative feedback reported in the grievance logbook for the current monitoring period. Hence, the evidence was accepted by the verification team.

**F.1.2. Report on any stakeholder mitigations that were agreed to be monitored**

<b>Means of verification</b>	There were no stakeholder mitigations that were agreed to be monitored during the current monitoring period.
<b>Findings</b>	No findings were raised.
<b>Conclusion</b>	The assessment team concluded that no stakeholder mitigations were agreed by the PD to be monitored during the current monitoring period.

**F.1.3. Details of any legal contest that has arisen with the project during the monitoring period**

<b>Means of verification</b>	There were no legal disputes during the current monitoring period.
<b>Findings</b>	No findings were raised.
<b>Conclusion</b>	The assessment team concluded that there were legal disputes during the current monitoring period.

**Section F. Internal quality control**

The draft verification report prepared by assessment team is reviewed by an independent Technical Review team (one or more members) to confirm if the internal procedures established and implemented by Earthood were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable GS4GG and CDM principles and requirements. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team are independent of the verification team.

During the technical review process additional findings may be identified or the closed-out findings may be opened, which needs to be satisfactorily resolved before the request for issuance is submitted to Gold Standard. The independent technical reviewer may either

approve the report as such or reject/return the same in such case providing the comments/findings/issues that needs to be resolved by the verification team. The decision taken by the Technical Reviewer is final and is authorized on behalf of Earthood Services Limited.

**Section G. Verification opinion**

Earthood has performed the independent verification of the emission reductions for the GS Project Activity (GS 5920) "Altaca Meram Biogas Plant" for the monitoring period 01/07/2022 to 30/06/2024, as reported in the Monitoring Report, version 6.0, dated 15/04/2025 Toros is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity. Earthood commenced the verification against the baseline and monitoring methodology, The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste /6/, the monitoring plan contained in the registered PDD/1/, and Monitoring Report version 6.0/4/, dated 15/04/2025.

VVB's verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Earthood planned and performed the verification by obtaining evidence and other information and explanations that Earthood considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

The verification team confirms that:

- The PA was found completely implemented as per the description given in the registered PDD.
- The actual operation conforms to the description in the registered PDD.

**Section H. Certification statement**

Earthood's verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Earthood planned and performed the verification by obtaining evidence and other information and explanations that Earthood considered necessary to give reasonable assurance that the reported GHG emission reductions are fairly stated.

In our opinion, the GHG emissions reductions reported for the project activity are fairly stated in the Monitoring Report version 6.0, dated 15/04/2025. Earthood, based on outcome of verification activities, certifies in writing that, during the current monitoring period from 01/07/2022 to 30/06/2024, the registered GS Project Activity (GS 5920) "Altaca Meram Biogas Plant" achieved the verified amount of 144,349 tCO2e reductions in anthropogenic emissions by sources of greenhouse gases that would not have occurred in the absence of the PA.

The verified amount of emission reductions is stated below as per implemented PA and as per commitment period:

Monitoring period	Amount (tCO <sub>2</sub> e)
01/07/2022 to 31/12/2022	45,751
01/01/2023 to 31/12/2023	68,932
01/01/2024 to 30/06/2024	29,666
<b>Total</b>	<b>144,349</b>

## Appendix-1. Abbreviations

Abbreviations	Full texts
AQL	Acceptable Quality Level
CAR	Corrective Action Request
CDM PCP	Clean Development mechanism Project Cycle Procedure
CDM PS	Clean Development mechanism Project Standard
CDM VVS	Clean Development mechanism Validation and Verification Standard
CER	Certified Emission Reduction
CL	Clarification Request
CMP	Conference of the Parties serving as the meeting of the Parties to the Kyoto Protocol
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
CP	Crediting period
DNA	Designated National Authority
EB	Executive Board
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
Gg	Giga gram
GS4GG	Gold Standard for Global Goals
GPS	Geographical Positioning System
IR	Internal Resource
IPCC	Intergovernmental Panel on Climate Change
Kg	kilogram
KPT	Kitchen Performance Test
MP	Monitoring Period
MR	Monitoring Report
PA	Project Activity
PDD	Project Design Document
PD	Project Developer/ Coordinating and Managing Entity
QA/QC	Quality Assurance/ Quality Control
TA	Technical Area (with in Sectoral Scope)
TR	Technical Reviewer
VCR	Verification and Certification report
VER	Verified Emission Reduction
VVS	Validation and Verification Standard
UNFCCC	United Nations Framework Convention on Climate Change
UQL	Unacceptable Quality Level
VVB	Validation and Verification Body

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

Competence Statement
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<b>Name</b>	Anjali Chaudhary		
<b>Education</b>	Bachelor of technology in Civil Engineering		
<b>Experience</b>	2+ Years		
<b>Field</b>	Civil Engineering		
<b>Approved Roles</b>			
<b>Team Leader</b>	YES (VM only)		
<b>Validator</b>	YES (VM only)		
<b>Verifier</b>	YES (VM only)		
<b>Local expert</b>	YES (India)		
<b>Financial Expert</b>	NO		
<b>Technical Reviewer</b>	Yes		
<b>TA Expert (X.X)</b>	YES (TA 1.1, 1.2, 3.1, 13.1 & 13.2)		
<b>Reviewed by</b>	Shifali Guleria (Quality Manager)	<b>Date</b>	11/09/2024
<b>Approved by</b>	Deepika Mahala (Technical Manager)	<b>Date</b>	11/09/2024

<b>Competence Statement</b>			
<b>Name</b>	Vardhan Kaushik		
<b>Education</b>	Master of Chemical Engineering B.Tech. in Chemical Engineering		
<b>Experience</b>	1 year and 9 months		
<b>Field</b>	Energy, Carbon Calculation, Process Integration, Heat Integration, Heat and mass balance, Electric Vehicle		
<b>Approved Roles</b>			
<b>Team Leader</b>	Yes		
<b>Validator</b>	Yes		
<b>Verifier</b>	Yes		
<b>Methodology Expert</b>	NO		
<b>Local expert</b>	Yes (India)		
<b>Financial Expert</b>	NO		
<b>Technical Reviewer</b>	NO		
<b>TA Expert (X.X)</b>	TA 1.1, 3.1, 5.1, 7.1		
<b>Trainee Validator/ Verifier</b>	YES		
<b>Reviewed by</b>	Shifali Guleria (Quality Manager)	<b>Date</b>	31/01/2025
<b>Approved by</b>	Deepika Mahala (Technical Manager)	<b>Date</b>	31/01/2025

<b>Competence Statement</b>	
<b>Name</b>	Kaviraj Singh
<b>Education</b>	Ph.D. (Environmental Engineering), IIT Delhi Masters (Energy & Environmental), DAVV Indore
<b>Experience</b>	15 Years +
<b>Field</b>	Climate Change & Environment
<b>Approved Roles</b>	
<b>Team Leader</b>	YES

<b>Validator</b>	YES		
<b>Verifier</b>	YES		
<b>Methodology Expert</b>	AMS-I.D., AMS-II.D., ACM0006, AMS-I.A., AMS-I.C., AMS-II.B., AMS-III.H, ACM0002, ACM0001, AM0080, ACM0018, AM0056, AM0073 VM0042, AMS-III.G, AMS-III.AF., VM0032, VM0018, ACM0010, ACM0022, AMS-III.D, AMS-III.F and AMS-III.A.Q		
<b>Local expert</b>	YES (India)		
<b>Financial Expert</b>	YES		
<b>Technical Reviewer</b>	YES		
<b>TA Expert (X.X)</b>	YES (TA 1.1, TA 1.2, TA 3.1, TA 13.1, TA 13.2)		
<b>Reviewed by</b>	Shifali Guleria (Quality Manager)	<b>Date</b>	02/02/2023
<b>Approved by</b>	Deepika Mahala (Technical Manager)	<b>Date</b>	02/02/2023

<b>Competence Statement</b>			
<b>Name</b>	Nida BAKIR		
<b>Education</b>	Bachelor's in environmental Engineer		
<b>Experience</b>	-		
<b>Field</b>	Climate Change & Environment		
<b>Approved Roles</b>			
<b>Team Leader</b>	NO		
<b>Validator</b>	NO		
<b>Verifier</b>	NO		
<b>Methodology Expert</b>	NO		
<b>Local expert</b>	NO		
<b>Financial Expert</b>	NO		
<b>Technical Reviewer</b>	NO		
<b>TA Expert (X.X)</b>	NO		
<b>Trainee</b>	Yes		
<b>Reviewed by</b>	Shifali Guleria (Quality Manager)	<b>Date</b>	14/05/2024
<b>Approved by</b>	Deepika Mahala (Technical Manager)	<b>Date</b>	14/05/2024

<b>Competence Statement (ISO 14065)</b>			
<b>Name</b>	Kubra Agriman		
<b>Education</b>	BS Environmental Engineering		
<b>Experience</b>	2+ years		
<b>Field</b>	Environmental Engineering		
<b>Approved Roles</b>			
<b>Team Leader</b>	NO		
<b>Validator</b>	Yes (VM)		
<b>Verifier</b>	Yes (VM)		
<b>Local expert</b>	Yes (Turkey)		
<b>Financial Expert</b>	NO		
<b>Technical Reviewer</b>	NO		
<b>TA Expert (X.X)</b>	NO		
<b>Reviewed by</b>	Shifali Guleria, Quality Manager	<b>Date</b>	27/12/2022
<b>Approved by</b>	Deepika Mahala, Technical Manager	<b>Date</b>	27/12/2022

Competence Statement			
<b>Name</b>	Divij Varshney		
<b>Education</b>	M. Tech. Renewable energy systems B.Tech. Electrical Engineering		
<b>Experience</b>	3.5 years		
<b>Field</b>	Climate Change & Environment / Industry		
Approved Roles			
<b>Team Leader</b>	Yes (VM)		
<b>Validator</b>	Yes (VM)		
<b>Verifier</b>	Yes (VM)		
<b>Local expert</b>	Yes (India)		
<b>Financial Expert</b>	NO		
<b>Technical Reviewer</b>	Yes		
<b>TA Expert (X.X)</b>	Yes (1.2 &3.1)		
<b>Reviewed by</b>	Shifali Guleria, Quality Manager	<b>Date</b>	04/04/2024
<b>Approved by</b>	Deepika Mahala, Technical Manager	<b>Date</b>	04/04/2024

Competence Statement			
<b>Name</b>	Deepika Mahala		
<b>Country</b>	India		
<b>Education</b>	M. Sc. (Environment Management), GGSIP University B.Sc. Hons. (Chemistry), Sri Venkateshwar College, DU		
<b>Experience</b>	8 Years +		
<b>Field</b>	Climate Change		
Approved Roles			
<b>Team Leader</b>	YES		
<b>Validator</b>	YES		
<b>Verifier</b>	YES		
<b>Local expert</b>	YES (India, Bangladesh)		
<b>Financial Expert</b>	NO		
<b>Technical Reviewer</b>	YES		
<b>TA Expert (X.X)</b>	YES (TA 1.1, TA 1.2, TA 3.1, TA 13.1, TA 13.2)		
<b>Reviewed by</b>	Shifali Guleria (Quality Manager)	<b>Date</b>	08/07/2024
<b>Approved by</b>	Kaviraj Singh (MD)	<b>Date</b>	08/07/2024

### Appendix 3. Documents reviewed or referenced

No	Title	References to the document	Provider
1.	GS4GG Approved Project Design Document	Version 9.0 Dated 29/08/2023	PD

2.	Validation Report	Version 6.0 Dated 08/01/2024	PD
3.	GS4GG Template: a) Monitoring report template b) Monitoring report template Guide	Version 1.1 Dated 14/10/2020	Others
4.	Monitoring report	Version 6.0 Dated 15/04/2025	PD
5.	ER calculation sheet, including the following a) Details of Farms with geocoordinates	As per the corresponding MR	PD
6.	GS Methodology: The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reduction from Manure Management Systems and Municipal Solid Waste	Dated 14/12/2013 <a href="https://globalgoals.goldstandard.org/421-wm-ghg-emission-reductions-from-manure-management-systems-and-municipal-solid-waste/">https://globalgoals.goldstandard.org/421-wm-ghg-emission-reductions-from-manure-management-systems-and-municipal-solid-waste/</a>	Others
7.	GS4GG Validation and Verification Standard	Version 1.0 Dated 06/03/2023	Others
8.	GS4GG Site visit and Remote audit requirements and procedures	Version 2.0 Dated 30/05/2023	Others
9.	GS4GG Principles and requirements	Version 1.2 Dated 23/10/2019	Others
10.	GS4GG Renewable Energy Activity Requirements a) Version 1.1 b) Version 1.4	Dated 01/03/2018 Dated 16/08/2021	Others
11.	GS4GG Design Change Requirements	Version 1.1 Dated 14/04/2023	Others
12.	CDM Project Standard for Project Activities	Version 3.0 Dated 09/09/2021	Others
13.	GS4GG Stakeholder consultation and Engagement requirements	Version 2.1 Dated 14/06/2022	Others
14.	CDM Standard for Sampling and surveys for CDM project activities and programmes of activities	Version 9.0 Dated 27/05/2021	Others
15.	Guidelines for sampling and survey for project activity and Programme of activities and programmes of activities	Version 4.0	Others
16.	Contracts with owners of new farms	-	PD
17.	On-site audit records	04/07/2024 – 05/07/2024	VVB
18.	<a href="https://enerji.gov.tr//Media/Dizin/EVCED/tr/%C3%87evreVe%C4%B0klim/%C4%B0klimDe%C4%9Fi%C5%9Fikli%C4%9Fi/TUESEmisyonFktr/Belgeler/Bform2020.pdf">https://enerji.gov.tr//Media/Dizin/EVCED/tr/%C3%87evreVe%C4%B0klim/%C4%B0klimDe%C4%9Fi%C5%9Fikli%C4%9Fi/TUESEmisyonFktr/Belgeler/Bform2020.pdf</a>	Last accessed on 10/12/2024	Others
19.	CDM Tool 07: Tool to calculate the emission factor for an electricity system	Version 7.0 Dated 31/08/2018	Others

20.	IPCC 2006 Volume 4	-	Others
21.	CDM Tool 14: Project and leakage emissions from anaerobic digesters	Version 2.0 Dated 22/09/2017	Others
22.	IPCC 5th Assessment Report (AR5)	-	Others
23.	CDM Tool 06: Project emissions from flaring	Version 4.0 Dated 22/09/2017	Others
24.	National Inventory Submission to UNFCCC	Last accessed on 11/12/2024 <a href="https://unfccc.int/ghg-inventories-annex-i-parties/2020">https://unfccc.int/ghg-inventories-annex-i-parties/2020</a>	Others
25.	Manufacturer Specification of electricity meters: - Main Meter - Backup Meter	-	PD
26.	Measurement and Measuring Instruments Inspection Regulation of Turkey: <ul style="list-style-type: none"> <li>• <a href="https://www.resmigazete.gov.tr/eskiler/2016/06/20160629-22.htm">https://www.resmigazete.gov.tr/eskiler/2016/06/20160629-22.htm</a></li> <li>• <a href="https://www.resmigazete.gov.tr/eskiler/2023/11/20231123.pdf">https://www.resmigazete.gov.tr/eskiler/2023/11/20231123.pdf</a></li> <li>• <a href="https://www.mevzuat.gov.tr/mevzuat?MevzuatNo=6381&amp;MevzuatTur=7&amp;MevzuatTertip=5">https://www.mevzuat.gov.tr/mevzuat?MevzuatNo=6381&amp;MevzuatTur=7&amp;MevzuatTertip=5</a></li> </ul>	Last accessed: 22/01/2025	Others
27.	EPIAS records of electricity: - Gross Generation - Internal Consumption - Net Generation	-	PD
28.	2019 Refinement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories	-	Others
29.	Official Climate Statistics by Turkish State Meteorological Service <a href="https://www.mgm.gov.tr/veridegerlendirme/il-ve-ilceler-istatistik.aspx?k=undefined&amp;m=KONYA">https://www.mgm.gov.tr/veridegerlendirme/il-ve-ilceler-istatistik.aspx?k=undefined&amp;m=KONYA</a>	Last accessed: 22/01/2025	Others
30.	Turkey Common Reporting Format (CRF) Table <a href="https://unfccc.int/documents/461898">https://unfccc.int/documents/461898</a>	Last accessed: 22/01/2025	Others
31.	Excel sheet of Biogas-Energy Production, which contains the monthly data of following: a) Biogas Production by 5 biodigesters b) Biogas Consumption of 4 gas engines c) Energy produced by 4 gas engines	-	PD
32.	Technical specifications of Flare unit	-	PD

33.	Documents of Gas Analyser: a) Manufacturer’s specification b) Photo of the installed meter c) Data	-	PD
34.	Contract between project owner (Toros Meram Yenilenebilir Enerji Üretim A.Ş.) and project developer (GTE Karbon Sustainable Enerji Egitim Danismanlik Ve Ticaret A.S.)	-	PD
35.	Photo of Gas Analyser	-	PD
36.	Training Records	-	PD
37.	Turkish State Meteorological Service <a href="https://mgm.gov.tr/veridegerlendirme/il-ve-ilceler-istatistik.aspx?k=undefined&amp;m=KONYA">https://mgm.gov.tr/veridegerlendirme/il-ve-ilceler-istatistik.aspx?k=undefined&amp;m=KONYA</a>	Last accessed on 29/01/2025	Others
38.	Electricity Market Annual Reports <a href="https://www.epdk.gov.tr/Detay/Icerik/3-0-0-102/yillik-rapor-elektrik-piyasasi-gelisim-raporlari">https://www.epdk.gov.tr/Detay/Icerik/3-0-0-102/yillik-rapor-elektrik-piyasasi-gelisim-raporlari</a>	Last accessed on 29/01/2025	Others
39.	Waste and Manure Transportation Log Entries	-	PD
40.	Grievance Logbook of 3 nearby villages	-	PD
41.	<ul style="list-style-type: none"> <li>Regulation on Animal Identification &amp; Registration (2017): <a href="https://www.resmigazete.gov.tr/eskiler/2017/08/20170818.pdf">https://www.resmigazete.gov.tr/eskiler/2017/08/20170818.pdf</a></li> <li>Law No. 5996 (Animal Health Law): <a href="https://www.resmigazete.gov.tr/eskiler/2010/06/20100613-12.htm">https://www.resmigazete.gov.tr/eskiler/2010/06/20100613-12.htm</a></li> </ul>	Last accessed on 17/06/2025	Others
42.	TÜRKVET system, managed by the Ministry of Agriculture and Forestry of Turkey: <a href="https://hayvanbilgi.tarim.gov.tr/">https://hayvanbilgi.tarim.gov.tr/</a>	Last accessed on 17/06/2025	Others

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

Table 1. Remaining FAR from validation

<b>FAR ID</b>	01	<b>Section no.</b>	GS4GG Design Review	<b>Date</b> : 04/07/2024
<b>Description of FAR</b>				
A FAR was raised in GS4GG Design Review:				
The start date of Crediting Period is the date of start of operation or a maximum of two years prior to the date of Project Design Certification, whichever occurs later. The design certification date is 7th Feb 2023. VVB shall verify the start date of the crediting period in line with the requirement.				
<b>Project Developer response</b>				<b>Date</b> : 12/07/2024
Project Design Certification date (07/02/2023) is later than the start of operation. Therefore, project can go up to 2 years before this date for the start date of CP. Although the CP start date was previously stated as 2021, project can go up to max 2 years from monitoring documents preparation and site visit to not lose any credit. Hence project would like to revise start date of the CP as the start				

date of MP 01/07/2022 which date also satisfies the statement given under "Principles and Requirements 5.1.1.e and 5.1.29"

**Documentation provided by project participant**

**VVB assessment**

**Date:** 05/08/2024

**Observation:**

- Design certification date 07/02/2023
- Start date of crediting period (CP) as per the registered PDD v9.0 is 01/01/2021
- Revised start date of crediting period is 01/07/2022

**Concern/Action:**

As the change in start date of crediting period is between 1-2 years and revised start date of CP is before the date of Project Design Certification, therefore PD shall clarify the following points as per Table 1 of GS4GG Design Change Requirements v1.1:

1. Demonstrate that no changes have occurred to the project activity that would result in a less conservative baseline or update the baseline using conservative data.
2. Demonstrate that substantive progress has been made by the project developer to start the project activity.

Further, the following inconsistency was observed in the MR v2.0:

3. PD shall confirm and update the start date of crediting period throughout the MR.

**Requirement:**

As per para 3.3.1 of GS4GG Design Change Requirements v1.1:

- a. Bringing forward the crediting period start date up to one year earlier than that indicated in the design certified PDD, taking into account that the start date shall not be earlier than two years from date of design certification and/or start date of the project, whichever occurs later.
- c. In case the revised start date of the crediting period is before the date of Project Design Certification, a certified project activity is required to request approval for the changes summarized in Table 1 below.

FAR#01 remains **OPEN**.

**Project Developer response**

**Date :** 24/09/2024

There is no change in the start date of the crediting period for this project activity. Start date of this Monitoring Period has been determined as 01/07/2022 since the start date of the MP can be shifted up to maximum two years according to the statement given under "Principles and Requirements 5.1.1.e and 5.1.29". Therefore, **Crediting period dates are the same as the registered PDD.**

1<sup>st</sup> Monitoring period: 01/07/2022 – 30/06/2024

1<sup>st</sup> Crediting period: 01/01/2021 – 31/12/2025

The physical site visit of this project activity has been completed on July 3-4, 2024. Thus, the monitoring period has been started on July 2022.

Monitoring period dates are also added to the milestone table in the MR.

“Table 2 Milestones of Meram Biogas Power Plant Project

Milestone	Date
Approval of The Feasibility Report	05/08/2016
EIA Approval	13/12/2016
LSC Meeting	02/08/2017
Generation License	04/10/2018
EPC Agreement (Construction Agreement)	01/12/2019
Site Delivery Protocol	02/12/2019
The Distribution System Agreement	13/05/2020
Gas Engine Commissioning	27/11/2020
Start Date of First Crediting Period	01/01/2021
1 <sup>st</sup> Crediting Period	01/01/2021 – 31/12/2025
Certificate of permission for use of building	13/08/2021

1 <sup>st</sup> Monitoring Period	01/07/2022 – 30/06/2024
This is the first monitoring period of the first crediting period.”	
<b>Documentation provided by project participant</b>	
<b>VVB assessment</b>	<b>Date:</b> 28/11/2024
<p>a. No changes have occurred to the project activity that would result in a less conservative baseline or update the baseline using conservative data. This was verified during the physical site visit and independent research conducted by the VVB. The comment is CLOSED.</p> <p>b. PD has demonstrated the substantive progress has been made by the project developer to start the project activity. Thus, the comment is CLOSED.</p> <p>c. PD has updated the start date of CP throughout the MR. However, PD shall provide substantive evidence for the start date of crediting period. Thus, the comment is <b>OPEN</b>.</p> <p>Additionally,</p> <p>d. PD has stated the start date of the crediting period is 01/01/2021. Since, the design certification date is 07/02/2023 and the start date of the crediting period should be maximum of two years prior to the date of Project Design Certification, thus, PD shall review the start date of the crediting period.</p>	
<b>Project Developer response</b>	<b>Date :</b> 06/01/2025
<p>c. Start date of the crediting period has been changed.</p> <p>d. Start date of the crediting period has been changed.</p>	
<b>Documentation provided by project participant</b>	
<b>VVB assessment</b>	<b>Date:</b> 17/01/2025
The start date of the crediting period has been changed to 01/07/2022 and PD has submitted the evidence and justification in the revised MR. Thus, the finding is CLOSED.	

**Table 3. CL from this verification**

CL ID	01	Section no.	Key Project Information of MR	Date :	05/06/2024
<b>Description of CL</b>					
<p>In the Monitoring Report (MR) v1.0 under “Key Project Information”, PD has stated the duration of the concerned monitoring period is from 01/06/2022 to 30/04/2024. However, the crediting period start date is 01/01/2021 as per the Project Design Document (PDD) version 9.0 and section A.4 of the MR v1.0. Also, under section A.1 of the MR v1.0, PD has stated “<i>This is the first monitoring period of the first crediting period</i>”.</p> <ol style="list-style-type: none"> <li>PD shall confirm the start date of the crediting period and provide substantiating evidence for the same.</li> <li>PD shall clarify this gap in the start dates of monitoring period (MP) and crediting period (CP).</li> </ol> <p><b>Requirement:</b> As per para 9.4.2.b of GS4GG Validation and Verification Standard v1.0, “<i>The VVB shall confirm that monitoring reports have been submitted to the certification body in a consecutive manner, that is, when a monitoring report is being submitted for a monitoring period, the VVB shall confirm that monitoring reports for the previous monitoring periods have been published.</i>”</p>					
<b>Project Developer response</b>					<b>Date :</b> 12/07/2024
<ol style="list-style-type: none"> <li>The crediting period date is from 01/01/2021 to 31/12/2025 and the first monitoring period covers from 01/07/2022 to 30/06/2024. As per the rules and requirements of Gold Standard, first monitoring period start date can be shifted up to one years with no justification and it also can be shifted up to two years with a justification. Since the registration procedure was quite long for this project, the start date of the MP has been shifted one and a half year. An explanation has been written in the Monitoring Report section B.</li> <li>A justification has been written in the MR, Section B.</li> </ol>					

<b>Documentation provided by project participant</b>					
Monitoring Report					
<b>DOE assessment</b>	<b>Date:</b> 05/08/2024				
<p>1. As per section B.2.5 of the MR v2.0:</p> <table border="1" style="margin-left: 40px;"> <tr> <td>1st Monitoring period</td> <td>01/07/2022 – 30/06/2024</td> </tr> <tr> <td>1st Crediting period</td> <td>01/01/2021 – 31/12/2025</td> </tr> </table> <p>PD shall confirm the start date of the crediting period and clarify this gap in the start dates of monitoring period (MP) and crediting period (CP)</p> <p>2. The biogas plant started its production of biogas and electricity generation from July 2021 onwards. Therefore, PD shall provide the details with substantiating evidence for the following parameters from July 2021 till the revised start date of the CP:</p> <ol style="list-style-type: none"> <li>a) Biogas produced,</li> <li>b) Electricity generated, and</li> <li>c) Generated emission reductions</li> </ol> <p>CL#01 remains <b>OPEN</b>.</p>		1st Monitoring period	01/07/2022 – 30/06/2024	1st Crediting period	01/01/2021 – 31/12/2025
1st Monitoring period	01/07/2022 – 30/06/2024				
1st Crediting period	01/01/2021 – 31/12/2025				
<b>Project Developer response</b>	<b>Date :</b> 24/09/2024				
<p>1. In section B2.5, this statement has been written “<i>Since the registration procedure and site visit planning took a little bit more time than expected, monitoring period has been shifted one and a half year after the start date of the 1<sup>st</sup> crediting period.</i></p> <p style="text-align: center;"><i>1<sup>st</sup> Monitoring period: 01/07/2022 – 30/06/2024</i> <i>1<sup>st</sup> Crediting period: 01/01/2021 – 31/12/2025”</i></p> <p>2. There is no need to revise it because start date of the CP is not changed. 1<sup>st</sup> CP covers 01/01/2021 – 31/12/2025.</p> <ul style="list-style-type: none"> <li>- Biogas produced has already been provided as an Excel file “BİYOĞAZ_ENERJİ_ÜRETİM_TABLOSU.xlsx”</li> <li>- EPIAŞ Records for the electricity generation have been provided.</li> <li>- Supporting documents have been shared.</li> </ul>					
<b>Documentation provided by project participant</b>					
<b>VVB assessment</b>	<b>Date:</b> 28/11/2024				
<p>1. PD has justified that due to the registration procedure and site visit planning, the verification of the first MP has been shifted. The clarification by the PD has been found acceptable, thus, the comment is <b>CLOSED</b>.</p> <p>2. PD has provided the record of electricity generation (EPIAS records); however, PD shall further provide the TEIAS bills for the electricity supplied to the grid. Thus, the comment is <b>OPEN</b>.</p>					
<b>Project Developer response</b>	<b>Date :</b> 06/01/2025				
<i>Requested documents has been submitted.</i>					
<b>Documentation provided by project participant</b>					
<b>VVB assessment</b>	<b>Date:</b> 17/01/2025				
PD has submitted the TEIAS bills for the electricity supplied to the grid. Thus, finding is <b>CLOSED</b> .					

<b>CL ID</b>	02	<b>Section no.</b>	Table 1 of MR	<b>Date :</b> 05/06/2024
<b>Description of CL</b>				
As per PDD v9.0, SDG 12 is targeted under this project activity (Table 1 of PDD v9.0, under section: Key project information). PD has excluded SDG target 12 along with its value and calculation from MR v1.0.				
PD shall clarify the reason for excluding SDG 12 from the concerned monitoring period.				

<b>Project participant response</b>						<b>Date : 12/07/2024</b>																																																																																																																																			
SDG 12 has been added to the Monitoring Report. The waste information has been provided																																																																																																																																									
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<p>PD has provided the amount achieved for SDG target 12 in Table 1 of the MR v2.0 and provided the supportive document; Waste Information.</p> <p>However, PD should further clarify the following points regarding the provided supportive document (Waste Information):</p> <ol style="list-style-type: none"> <li>SDG 12 evaluation is missing under sections E.4, E.5 and E.6 of the MR.</li> <li>The amount of total waste incorporated under SDG 12 in the MR v2.0 accounts for dates 02/01/2022 to 08/07/2024. Therefore, PD shall update the total amount of waste treated for the concerned MP only.</li> <li>Many suppliers/dealers/aggregators of these chicken/cattle manure that are not listed under section B.3 of the PDD v9.0 and in the ER sheet (both versions; 1.0 and 2.0). Therefore, PD shall clarify the reason for not including all the suppliers of chicken and cattle manure in the ER sheet and provide the contract with each of these suppliers/aggregators as per the requirement of the applied methodology.</li> <li>PD shall provide the contracts with suppliers/dealers/aggregators of agricultural waste as per the requirement of the applied methodology.</li> <li>PD shall clarify the significance of column "KM ORANI (%)" and column "TOPLAM KM (%)" for calculating the total waste.</li> </ol> <p>The following concern was observed in the MR v2.0 for SDG targets:</p> <ol style="list-style-type: none"> <li>PD has provided the employment records with the social security number for the concerned monitoring period to substantiate the achieved amount for SDG 8. However, the provided employment records do not specify the gender of the employees and SDG tool refers to breaking down of the employment data by gender to enable the understanding of gender representation. Therefore, PD shall provide a consolidated datasheet to verify the SDG 8 targets, as per the SDG Tool.</li> </ol> <p>CL#02 remains <b>OPEN</b>.</p>																																																																																																																																									
<b>Project participant response</b>						<b>Date : 24/09/2024</b>																																																																																																																																			
<ol style="list-style-type: none"> <li>SDG 12 evaluation has been added to the Section E.4, E.5, E.6.</li> <li>Total amount of waste for the dates covering the Monitoring Period (01/07/2022 – 30/06/2024) has been recalculated by taking into "ratio" considerations as is seen in the Figure below and the Waste Information Excel Sheet. Therefore, SDG 12 values have been updated throughout the MR.</li> </ol>																																																																																																																																									
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<ol style="list-style-type: none"> <li>SDG 12 values have been revised and updated based on the MP dates.</li> <li>All of the contracts provided by the Project Owner have been shared.</li> <li>All of the necessary contracts provided by the Project Owner have been shared.</li> <li></li> <li>June 2024 social security records have been used for SDG 8 parameter.</li> </ol>																																																																																																																																									

<b>Documentation provided by project participant</b>	
<b>DOE assessment</b>	<b>Date:</b> 28/11/2024
<ol style="list-style-type: none"> <li>SDG 12 evaluation has been added in the sections E.4, E.5 and E.6 of the MR. Thus, the comment is CLOSED.</li> <li>PD has updated the total waste incorporated for the current MP. Thus, the comment is CLOSED.</li> <li>PD has provided contracts with farm owners. Thus, the comment is CLOSED.</li> <li>PD has provided contracts with farm owners. Thus, the comment is CLOSED.</li> <li>The comment is not addressed. PD shall address the raised comment. Thus, the comment is OPEN.</li> <li>PD has provided the evidence to confirm the value of SDG 8 indicator. Thus, the comment is CLOSED.</li> </ol>	
<b>Project Developer response</b>	<b>Date :</b> 06/01/2025
<i>Requested document has been submitted.</i>	
<b>Documentation provided by project participant</b>	
<b>VVB assessment</b>	<b>Date:</b> 17/01/2025
PD has provided the contracts with the farm owners. Thus, finding is CLOSED.	

<b>CL ID</b>	03	<b>Section no.</b>	ER Sheet	<b>Date :</b> 06/06/2024												
<b>Description of CL</b>																
<p>The following points were observed in the ER sheet (Titled: ER_Calculation_Sheet-MERAM_16052024.xlsx) regarding the addition of farms during the concerned MP:</p> <ol style="list-style-type: none"> <li>Poultry farm, 'Es-tav' was being added in the project activity in the operation year 2022 of the project activity, as per cell F42 in the worksheet; Baseline emission in 2022.</li> <li>3 Poultry farms; Oytun Yumurta, Tekkelioğlu and NUR TARIM, along with 3 chicken farms; Dursunoğlu, Duranlar and Yaşar Tekin, were added in the operation year 2023, as per the table provided from cell F27 in the worksheet; Baseline emission in 2023.</li> <li>2 Poultry farms; Celalettin Hakan Katırcı and Çiftçioğlu, and with 1 chicken farm; Eggline, were added in the operation year 2024, as per the table provided from cell F27 in the worksheet; Baseline emission in 2024.</li> </ol> <p>PD shall provide:</p> <ol style="list-style-type: none"> <li>Signed contracts with these 10 additional farms which are not listed in the PDD v9.0.</li> <li>Demonstrate the eligibility criteria of these 10 farms.</li> </ol> <p>Please provide details of the farms that have been supplying waste to PD during the current monitoring period in the format outlined below:</p> <table border="1"> <thead> <tr> <th>Name of the farm</th> <th>Type of the farm</th> <th>Contract from DD/MM/YYYY until DD/MM/YYYY</th> <th>Geo coordinates</th> <th>Distance from Central treatment plant</th> <th>Baseline scenario</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					Name of the farm	Type of the farm	Contract from DD/MM/YYYY until DD/MM/YYYY	Geo coordinates	Distance from Central treatment plant	Baseline scenario						
Name of the farm	Type of the farm	Contract from DD/MM/YYYY until DD/MM/YYYY	Geo coordinates	Distance from Central treatment plant	Baseline scenario											
<b>Project participant response</b>				<b>Date :</b> 12/07/2024												
<p>A table, as stated, has been added into the both MR and ER Excel sheet.</p> <ol style="list-style-type: none"> <li>There are signed contracts including the number of cattles and chickens; however, signed contracts between the PO and the farms will be asked to the PO and provide to you.</li> <li>Those ten new farms are eligible for this project as the other old ones.</li> </ol>																
<b>Documentation provided by project participant</b>																
<b>DOE assessment</b>				<b>Date:</b> 05/08/2024												
PD has provided the declaration for number of animals in the farms and added the information about																

farms (name, type, contract signed, geocoordinates and distance from plant) under section A.2 of the MR v2.0. However, PD shall further clarify the following points: <ol style="list-style-type: none"> <li>1. PD shall provide baseline scenario and eligibility criteria of the farms that are not listed under section B.3 of PDD v9.0</li> <li>2. PD shall provide the contract with the farms regarding the carbon ownership.</li> </ol> CL#03 is <b>OPEN</b> .	
<b>Project participant response</b>	<b>Date : 01/10/2024</b>
<ol style="list-style-type: none"> <li>1. Applicability conditions of the baseline scenario for the new added farms have been provided in the MR page 9.</li> <li>2. Contracts with the farms have been provided.</li> </ol>	
<b>Documentation provided by project participant</b>	
Monitoring Report	
<b>DOE assessment</b>	<b>Date: 28/11/2024</b>
PD has stated in the MR and submitted the evidence to substantiate the inclusion of new farms during the current MP. Thus, CL#03 is <b>CLOSED</b> .	

<b>CL ID</b>	04	<b>Section no.</b>	On-site Visit	<b>Date : 04/07/2024</b>
<b>Description of CL</b>				
During the onsite inspection of the biogas facility, the VVB observed the presence of lagoons with liquid phase of treated waste held in it. This lagoon is not the part of project design and is present for exigencies as clarified by the site engineer. PD shall clarify if the same is considered as the contributing source to emissions within the project boundary.				
<b>Project participant response</b>				<b>Date : 12/07/2024</b>
As the site engineer clarified, the same approach was considered.				
<b>Documentation provided by project participant</b>				
<b>VVB assessment</b>				<b>Date: 05/08/2024</b>
<ol style="list-style-type: none"> <li>1. PD shall confirm that the applicability conditions of the applied methodology are being met for all the new farms (not listed under section B.3 of PDD v9.0)</li> </ol> There are further observations during the onsite visit, which are as follows: <ol style="list-style-type: none"> <li>2. One farm started its operation in 2022 (i.e. 2 years ago) and has a contract with Toros from 2022. PD shall provide substantiating evidence for the eligibility criteria and demonstrate the baseline scenario for such cases.</li> </ol> CL#04 is <b>OPEN</b> .				
<b>Project participant response</b>				<b>Date : 23/10/2024</b>
<ol style="list-style-type: none"> <li>1. Applicability conditions based on the applied methodology have been indicated for the new farms in page 9, MR. Applied methodology is applicable for the new farms.</li> <li>2. Eligibility criteria have been provided for the new farms.</li> </ol>				
<b>Documentation provided by project participant</b>				
<b>VVB assessment</b>				<b>Date: 28/11/2024</b>
<ol style="list-style-type: none"> <li>1. MR has been updated. Thus, the comment is <b>CLOSED</b>.</li> <li>2. PD has provided the contract. Thus, the comment is <b>CLOSED</b>.</li> </ol> CL#04 is <b>CLOSED</b> .				

**Table 4. CAR from this verification**

<b>CAR ID</b>	01	<b>Section no.</b>	Section D of MR	<b>Date : 05/06/2024</b>
<b>Description of CAR</b>				
<ol style="list-style-type: none"> <li>1. PD did not state the following parameters under section D.1 and D.2 of the MR v1.0.                     <ol style="list-style-type: none"> <li>a. Ex-ante (Fixed) Parameters: VS<sub>LT</sub> (Density of CH<sub>4</sub>) for both cattle and chicken manure</li> <li>b. Ex-post (Monitored) Parameters: "Air Quality"</li> </ol> </li> </ol>				

2. Several inconsistencies were observed while assessing the ex-post parameters stated under section D.2 of the MRv1.0,

for example:

- a. The value applied for the ex-post parameter  $EG_{d,y}$  (Electricity generated using biogas) is 42,028 MWh (which is the ex-ante value mentioned in PDD v9.0). As per the cell C19 of the worksheet titled 'EPIAS Records' of ER sheet, the total electricity generated during the concerned monitoring period is 65,937.4 MWh.
- b. PD has stated that "Project owner will provide during monitoring" for the value of ex-post parameter,  $V_f$  (Biogas; total biogas goes to gas engines). The same statement can be found in PDD v9.0 for this parameter.

Similar kinds of inconsistencies can be found for other ex-post parameters as well.

PD shall update these values in the MR as per the records of the concerned monitoring period.

<b>Project participant response</b>	<b>Date : 12/07/2024</b>
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1. Ex-post parameters have been revised. EPIAS records have been included.
2. Ex-post parameters have been revised and the values have been written.

<b>Documentation provided by project participant</b>
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Monitoring Report

<b>DOE assessment</b>	<b>Date: 05/08/2024</b>
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PD has updated the MR (v2.0) and added the above-mentioned ex-ante parameters. However, PD shall update the MR as per the following points:

1. Ex-ante parameters:  $EF_{CH_4, default}$  and  $D_{CH_4}$ , are listed twice
2. Monitored parameter (Air Quality) is still missing from the MR v2.0.
3. Description of ex-ante parameters  $VS_{LT}$  has been found inconsistent with the applied methodology.  
This comment is **OPEN**.

PD has updated the values of the monitored parameters in the MR v2.0. However, values of the following monitored parameters are still needs to be updated:

4. **MCFj** – Value should be updated as per 2019 refinement of IPCC 2006 guidelines. The current value of this parameter is sourced from IPCC 2006 guidelines.
5. **Vf** – Provide the total amount of biogas generated during the concerned MP in MR
6. **Quality of Employment** – Provide the number of employments generated during the concerned MP in the MR.
7. **FRf\_agricultural waste** – Kindly update the value as it is found to be inconsistent with the provided source (Waste information)
8. **N (total number of farms)** – PD shall also provide the number of agricultural farms in the MR
9. **NAA,LT** – PD shall apply annual average for this parameter for both poultry and cattle
10. **FRf,m** – Kindly update the value mentioned in the MR v2.0 is inconsistent with the provided source (Waste information)
11. **T** – Following points shall be clarified by the PD for this monitored parameter:
  - i. Monitoring frequency has been defined as annually, while page 34 of applied methodology requires monthly monitoring.
  - ii. The source provided for this parameter gives the value of annual average for the period 1929 to 2023. However, the concerned MP covers 2022 to 2024.

This comment is **OPEN**.  
CAR#01 is **OPEN**.

<b>Project participant response</b>	<b>Date : DD/MM/YYYY</b>
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1. The section D.1 has been revised and the mentioned parameters have been listed once now.
2. Monitoring parameter "Air Quality" has been added and can be seen in the page 38.
3. Description and other information of  $VS_{LT}$  have been written same as the registered PDD version 9. Since the PDD version 9 of this project activity was approved by Gold Standard itself, there should not be any inconsistency based on the applied methodology.

<ol style="list-style-type: none"> <li>4. The value of MCF is taken as 0.67 based on the 2019 IPCC Refinement, Table 10.17, p. 10.68 referred 67% ( the uncovered anaerobic lagoon for 11.7 °C, Konya Province conditions.</li> <li>5. Total amount of biogas generation has been provided as “Project owner provided an Excel sheet to show the values for this parameter, As an example: Reactor 1 - January 2023: 280,886 m<sup>3</sup> Biogas generation For all reactors 1-2-3-4-5) from 01/07/2022 to 28/02/2024, total biogas generation is 22,663,794 m<sup>3</sup>.<sup>1</sup>”</li> <li>6. Quality of employment value has been filled out properly based on the MERAM 2024 Teknik Eğitim Excel Sheet.</li> <li>7. FRf values have been updated.</li> <li>8. Updated in the MR</li> <li>9. Updated in the MR page 49.</li> <li>10. Updated in the MR</li> <li>11. Updated in the MR</li> </ol>
<b>Documentation provided by project participant</b>
<b>DOE assessment</b> <span style="float: right;"><b>Date:</b> 28/11/2024</span>
<ol style="list-style-type: none"> <li>1. MR has been updated. Thus, the comment is CLOSED.</li> <li>2. MR has been updated. Thus, the comment is CLOSED.</li> <li>3. MR has been updated. Thus, the comment is CLOSED.</li> <li>4. MR has been updated. Thus, the comment is CLOSED.</li> <li>5. MR has been updated. Thus, the comment is CLOSED.</li> <li>6. PD has provided the evidence. Thus, the comment is CLOSED.</li> <li>7. MR has been updated. Thus, the comment is CLOSED.</li> <li>8. MR has been updated to include the agricultural farms. Thus, the comment is CLOSED.</li> <li>9. MR has been updated. Thus, the comment is CLOSED.</li> <li>10. MR has been updated and found consistent with the ER sheet. Thus, the comment is CLOSED.</li> <li>11. MR has been updated. Thus, the comment is CLOSED.</li> </ol> <p>CAR#01 is <b>CLOSED</b>.</p>

<b>CAR ID</b>	02	<b>Section no.</b>	E.2	<b>Date :</b> 02/07/2023
<b>Description of CAR</b>				
<p>PE transport is calculated based on the considering the farthest distance of the supplier farm i.e., 163 kms however as observed that the farms keep changing during the MP, PP shall confirm if the farthest return trip distance still remains 163kms.</p> <p>PP shall include the details of the distance in the ER sheet and choose the largest return distance accordingly in accordance with the registered approach for calculation.</p>				
<b>Project participant response</b>				<b>Date :</b> 12/07/2024
The furthest return trip distance is 169 km as it is indicated in the table shown in ER and MR.				
<b>Documentation provided by project participant</b>				
<b>VVB assessment</b>				<b>Date:</b> 05/08/2024
PD has updated the MR v2.0 and corresponding ER sheet. CAR#02 is <b>CLOSED</b> .				

<b>CAR ID</b>	03	<b>Section no.</b>	C	<b>Date :</b> 02/07/2023
<b>Description of CAR</b>				
MR shall include the serial no, manufacturer’s specifications and calibration details of the installed monitoring devices (a corresponding comment is raised in the MR for each).				

<sup>1</sup> Biogas Generation Excel Sheet

<b>Project participant response</b>	<b>Date : 12/07/2024</b>
Some information has been written to the data and parameters table in the MR and the documents have been provided.	
<b>Documentation provided by project participant</b>	
Monitoring Report	
<b>VVB assessment</b>	<b>Date: DD/MM/YYYY</b>
<p>PD shall provide the serial no., model/make and calibration details in the table of "Data &amp; Parameters" of MR for the following monitored parameters:</p> <ul style="list-style-type: none"> <li>• EGd,y – 2 electricity meters</li> <li>• Vf - flowmeter</li> <li>• FRG,m - flowmeter</li> <li>• FRf,m – weighbridge</li> </ul> <p>PD shall also provide the manufacturer's specification of the above meters. CAR#03 is <b>OPEN</b>.</p>	
<b>Project participant response</b>	<b>Date : 1/10/2024</b>
In Section D.2, technical specifications have been provided for the mentioned parameters with the reference documents.	
<b>Documentation provided by project participant</b>	
<b>DOE assessment</b>	<b>Date: 28/11/2024</b>
PD has stated the technical specifications of the meters in the MR. However, PD shall submit manufacturer's specifications and calibration certificates of these meters. Thus, CAR#03 is OPEN.	
<b>Project Developer response</b>	<b>Date : DD/MM/YYYY</b>
<b>Documentation provided by project participant</b>	
<i>Requested documents have been submitted.</i>	
<b>VVB assessment</b>	<b>Date: DD/MM/YYYY</b>
PD has provided the manufacturer's specifications and calibration certificates of these meters. Thus, this finding is <b>CLOSED</b> .	

<b>CAR ID</b>	04	<b>Section no.</b>	E.1	<b>Date : 04/07/2023</b>
<b>Description of CAR</b>				
<p>As per section B.6.3 of the PDD v9.0 (pg. no. 64) and section E.1 of the MR v1.0 (pg. no. 36), "<i>The baseline emissions associated with heat generation are not considered within the scope of this project. The project does not seek emission reduction credits from the heat component.</i>"</p> <p>However, as per ER sheet (ER_Calculation_Sheet-MERAM_13062024.xlsx), dated 13/06/2024, baseline emissions from steam/heat displaced by the project activity have been considered in the baseline emissions. The value baseline emissions associated with heat generation is considered constant i.e. 1,032 tCO<sub>2</sub>/year and added in total baseline emissions for every year of this concerned MP (i.e. Year 2022, 2023 and 2024).</p> <p>Kindly refer to cell D19 (BE from Heat Generation) and D25 (Total Baseline emissions) of baseline worksheets (Baseline Emission in 2022, Baseline Emission in 2023 and Baseline Emission in 2024).</p> <p>PP shall clarify the reason of including the baseline emissions associated with the heat generation for the emission reduction calculation.</p>				
<b>Project participant response</b>				<b>Date : 12/07/2024</b>
Baseline emissions have been calculated without heat generation because Baseline Emissions are the total of Baseline emission of methane and Baseline emission of electricity generation; therefore, calculations have been revised.				
<b>Documentation provided by project participant</b>				
Monitoring Report				
ER Calculation Excel Sheet				
<b>VVB assessment</b>				<b>Date: 05/08/2024</b>

PD has provided the updated MR v2.0 and ER sheet (dated 12/07/2024). The calculation has been revised and baseline emissions have been calculated without heat generation. CAR#04 is **CLOSED**.

CAR ID	05	Section No.	E of MR	Date : 05/08/2024
<b>Description of CAR</b>				
<p>1. Under section B.3 PDD v9.0, N<sub>2</sub>O emissions (both Baseline and Project) for the source “1: Emissions from waste treatment process” are considered for this project activity. However, MR v2.0 and its corresponding ER sheet does not account for N<sub>2</sub>O emissions. Therefore, PD shall clarify for excluding N<sub>2</sub>O emissions.</p> <p>2. There is no account of emissions related to flare unit in MR v2.0 and ER sheet (dated 12/07/2024). Therefore, PD shall clarify on excluding the emissions related to flare unit</p> <p>3. As per the applied methodology, CDM Tool 05 should be used to calculate the baseline emission associated with electricity generation. And according to equation 2 of tool 05, transmission losses should be considered for calculating the emissions from consumption of electricity, as follows:</p> $BE_{EC,y} = \sum_k EC_{BL,k,y} \times EF_{EF,k,y} \times (1 + TDL_{k,y})$ <p>However, PD used the below equation for calculating the baseline emission for electricity generation (refer pg 45 of MR v2.0):</p> $BE_{EG} = EG_{BL,y} \times EF_{CO_2,grid,y}$ <p>Therefore, PD shall clarify how the above equation is in-line with the applied methodology.</p> <p>4. Transmission losses (TDL<sub>i,y</sub>) are considered for calculating the project emissions from electricity consumption (PE<sub>EC,y</sub>). Therefore, PD shall clarify the following points</p> <p>a) The value of TDL is calculated by combining the transmission losses of the country (i.e. Turkey) and the region in which plant is located. However, these individual losses cannot be traced back to the provided source. Therefore, PD shall provide the traceable source for these individual values.</p> <p>b) PD shall clarify why this parameter is not included as either ex-ante or monitored parameter.</p> <p>5. The formula used for the calculating the quantity of methane produced is as follows:</p> $Q_{CH_4,y} = Max(daily\ biogas\ production) \times 365 \times 0.06 \times D_{CH_4}$ <p>However, as per the equation 2 of CDM Tool 14,</p> $Q_{CH_4,y} = Q_{biogas,y} \times f_{CH_4,default} \times D_{CH_4}$ <p>Here, the value of <math>f_{CH_4,default}</math> is 0.6 m<sup>3</sup> of CH<sub>4</sub> / m<sup>3</sup> of biogas, as per PDD v9.0</p> <p>Therefore, PD shall clarify how the formula used for calculating Q<sub>CH<sub>4</sub></sub> (refer to cell D3 of project emission’s worksheet of ER sheet, dated 12/07/2024) is in-line with the applied methodology and tool.</p> <p>6. Under section E.5 of the MR v2.0:</p> <p>a) PD shall review the actual values achieved for all the 3 SDG targets for the concerned MP and ensure that these values are on annual basis.</p> <p>b) Ex-ante value for SDG 7 is stated as 42,280 MWh in the MR v2.0. However, 42,028 MWh is stated under table 1 and section B.6.1 of the registered PDD (v9.0). Therefore, PD shall update the ex-ante values</p> <p>7. Under section E.6 of the MR v2.0,</p> <p>a) PD shall review the statement “The project has been expected to generate 42,280 MWh for the whole monitoring period as indicated in the table in Section E.5” and ensure that the considered statement should be regarding the concerned MP.</p> <p>b) PD shall review the statement under SDG 7 and SDG 13 and ensure that the values should be on annual basis.</p>				

8. PD shall clarify on the emergency backup system of the biogas plant in case of any discrepancies and confirm whether those emissions are accounted for the concerned monitoring period.

**Project participant response**

**Date : DD/MM/YYYY**

1. *“Moreover, since EN2O,D,y and EN2O,ID,y emissions equations for the baseline emissions (BEN2O,y page 11 of The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reductions from Manure Management Systems and Municipal Solid Waste, December 2013) and project emissions (PEN2O,y page 15 of The Gold Standard Revised Consolidated Baseline Methodology for GHG Emission Reductions from Manure Management Systems and Municipal Solid Waste, December 2013) calculation equations are given same in the Gold Standard’s consolidated baseline methodology, this would led emission calculations net emissions based on N2O as zero as also explained in baseline emissions calculation part of this document. Hence, the project emission equation could be simplified as; PEy = PEAD,y + PEEC,y + PETran,y” stated in the Registered PDD page 65. Therefore, emission from N2O is not calculated.*
2. *“In addition, since the flare devices equipped for emergency situations only, PEflare,y shall also be accounted as zero.” Stated in the registered PDD page 66. Therefore, emission from flare unit is excluded.*
3. *Revised and updated correctly.*
4. *Based on the reference document EPDK<sup>2</sup>, “TDL value has been taken as 6.2% for the year 2022 while it has been taken as 5.7% for the years 2023 and 2024 as shown in the document page 117.<sup>3</sup> Necessary changes and updates have been made throughout the MR, page 55 and ER Excel Sheet. Parameter has been added to the MR page 45.*
5. *Revised and updated correctly.*
6. *Actual values have been updated.*
7. *Estimated Electricity generation value has been revised.*
8. *Revised and updated correctly.*

“

**DOE assessment**

**Date: 28/11/2024**

1. PD has provided the justification in the MR. thus, the comment is CLOSED.
2. Exclusion of the project emissions from flaring is as per PDD. Thus, the comment is CLOSED.
3. MR has been updated. Thus, the comment is CLOSED.
4. MR has been updated. Thus, the comment is CLOSED.
5. MR has been updated. Thus, the comment is CLOSED.
6. MR has been updated. Thus, the comment is CLOSED.
7. MR has been updated. Thus, the comment is CLOSED.
8. MR has been updated. Thus, the comment is CLOSED.

CAR#05 is **CLOSED**.

CAR ID	06	Section No.	A.1 of MR	Date	05/08/2024
<b>Description of CAR</b>					
<p>Under section A.1 of the MR v2.0, PD has stated that <i>“Thanks to the project, an annual emission reduction of 74,306 tonnes of CO<sub>2</sub>e is achieved. The total emission reduction for this monitoring period is 148,612 tonnes of CO<sub>2</sub>e. Also, the project is expected to reduce 204.0 tons of SO<sub>2</sub> and 43.9 tons of NO<sub>x</sub> emissions”</i>. However, as per the ER sheet (dated 12/07/2024), the total ERs achieved are 148,405 CO<sub>2</sub>e. Also, the reduction in SO<sub>2</sub> and NO<sub>x</sub> stated in the ER sheet are found to be inconsistent with the MR v2.0.</p> <p>Therefore, PD shall update following points throughout the MR:</p> <ol style="list-style-type: none"> <li>a) The annual and total ERs achieved for the concerned monitoring period (MP).</li> <li>b) The total reduction in SO<sub>2</sub> and NO<sub>x</sub> emissions for the concerned MP in both MR and ER sheet, as the value in the ER sheet only consider the electricity generated in year 2022.</li> </ol>					

<sup>2</sup> <https://www.epdk.gov.tr/Detay/Icerik/3-0-0-102/yillik-rapor-elektrik-piyasasi-gelisim-raporlari> year 2023

<sup>3</sup> <https://www.epdk.gov.tr/Detay/Icerik/3-0-0-102/yillik-rapor-elektrik-piyasasi-gelisim-raporlari> year 2023

<p>c) The amount of SDG impacts achieved are inconsistent within the MR v2.0. As the values mentioned in the table of section E.4 and E.5 are inconsistent with Table 1 of the MR v2.0. Therefore, PD shall update the values of SDG impact achieved throughout the MR.</p> <p>d) Observations regarding the treatment of agricultural waste:</p> <ul style="list-style-type: none"> <li>As per PDD v9.0, the expected amount of agricultural waste is 3,650 tonnes/year.</li> <li>The actual achieved amount of agricultural waste treated is 58,595 tonnes/year. For the concerned MP.</li> </ul> <p>Therefore, PD shall clarify the reason for achieving the higher value than the expected for SDG 12 and also update section E.6 of the MR accordingly.</p>	
<b>Project participant response</b>	<b>Date : 23/10/2024</b>
<p><i>Actual emission reduction and electricity generation values have been revised properly in the MR and ER excel sheet.</i></p> <p>a) <i>Updated.</i></p> <p>b) <i>SO2 and NOx emission have been updated in the ER Excel Sheet.</i></p> <p>c) <i>Revised.</i></p> <p>d) <i>The actual amount of agricultural waste is 22,397.39 tonnes/year as is shown in the Waste Information Excel Sheet. There is a huge difference between estimated annual agricultural waste and actual annual agricultural waste. This difference can be due to the plant operation phases. Plant operation might be increased rather than the estimate values.</i></p>	
<b>Documentation provided by project participant</b>	
<b>DOE assessment</b>	<b>Date: 28/11/2024</b>
<p>a) MR has been updated. Thus, the comment is CLOSED.</p> <p>b) ER sheet has been updated. Thus, the comment is CLOSED.</p> <p>c) MR has been updated. Thus, the comment is CLOSED.</p> <p>d) MR has been updated. Thus, the comment is CLOSED.</p> <p>CAR#06 is <b>CLOSED</b>.</p>	

<b>CAR ID</b>	07	<b>Section No.</b>	G of MR	<b>Date : 05/08/2024</b>
<b>Description of CAR</b>				
<p>PD shall provide the supportive for on-going communications with the local stakeholders.</p> <p><b>Requirement:</b> As per section 3.8 (Continuous input and grievance mechanism) of GS4GG Stakeholder consultation and Engagement requirements v2.1.</p>				
<b>Project participant response</b>				<b>Date : 23/10/2024</b>
<p><i>Logbooks have been provided to the nearest mukhtars of the Meram Biogas Power Plant. Evidence documents have been shared.</i></p>				
<b>Documentation provided by project participant</b>				
<b>VVB assessment</b>				<b>Date: 28/11/2024</b>
<p>PD has provided the evidence for the logbook. Thus, the comment is CLOSED.</p>				

**Table 5. FAR from this verification**

<b>FAR ID</b>		<b>Section No.</b>		<b>Date : DD/MM/YYYY</b>
<b>Description of FAR</b>				
<b>Project participant response</b>				<b>Date : DD/MM/YYYY</b>
<b>Documentation provided by project participant</b>				
<b>VVB assessment</b>				<b>Date: DD/MM/YYYY</b>

*e.g., there is no FAR from this verification.*