



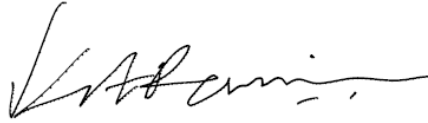
**Verification and certification report form for  
CDM project activities  
(Version 02.1)**

*Complete this form in accordance with the instructions attached at the end of this form.*

**BASIC INFORMATION**

<b>Title and UNFCCC reference number of the project activity</b>	Landfill Gas Recovery and Utilization at Bukit Tagar Sanitary Landfill, Hulu Selangor, Malaysia UNFCCC Ref No: 2467 TN Ref. No: MY-PVer 19/02 – 19/003
<b>Version number of the verification and certification report</b>	1.0
<b>Completion date of the verification and certification report</b>	14/05/2019
<b>Monitoring period number and duration of this monitoring period</b>	Monitoring Period: 2 Duration of MP: 01/01/2018 – 31/12/2018 (both dates inclusive)
<b>Version number of the monitoring report to which this report applies</b>	1.3
<b>Crediting period of the project activity corresponding to this monitoring period</b>	2
<b>Project participants</b>	KUB-Berjaya Enviro Sdn. Bhd. (KBE)
<b>Host Party</b>	Malaysia
<b>Applied methodologies and standardized baselines</b>	ACM0001 version 18.0 – “Flaring or use of landfill gas”
<b>Mandatory sectoral scopes linked to the applied methodologies</b>	Scope: 13 / Technical Area: 13.1
<b>Conditional sectoral scope(s) linked to the applied methodologies</b>	N/A
<b>Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD</b>	269,207 tCO <sub>2</sub> e
<b>Certified amount of GHG emission reductions or GHG removals for this monitoring period</b>	171,020 tCO <sub>2</sub> e
<b>Name and UNFCCC reference number of the DOE</b>	TÜV NORD CERT GmbH UNFCCC Ref. No.: E-0022

Name, position and signature of the approver of the verification and certification report



Kunal Rami

Final Approver

**SECTION A. Executive summary**

KUB-Berjaya Enviro Sdn. Bhd has commissioned the TÜV NORD JI/CDM Certification Program to carry out the 2<sup>nd</sup> periodic verification of the second crediting period (CPII) of the project:

**“Landfill Gas Recovery and Utilization at Bukit Tagar Sanitary Landfill, Hulu Selangor in Malaysia”**

with regard to the relevant requirements for CDM project activities.

This verification covers the monitoring period from 01/01/2018 – 31/12/2018 (including both days).

The project activity is registered with UNFCCC on 28/08/2009 and registration ID 2467 with a renewable crediting period. The 2<sup>nd</sup> crediting period starts from 28/08/2016 – 27/08/2023 (including both days).

The project activity reduces GHG emissions due to avoidance of methane emission from landfill which the gas is recovered, flared, and utilized for electricity generation

Details of the project location is given in table A-1 below:

**Table A-1:** Project Location

No.	Project Location
Host Country	Malaysia
Region:	State of Selangor
Project location address:	Mukim Sq. Tinggi, District of Hulu Selangor
Latitude:	03° 30' 16.8" N
Longitude:	101° 28' 42.8" E

Basic technical details of the project are summarized in table A-2.

**Table - A-2:** Technical data of the project activity

Parameter	Unit	Value
<b>Flare</b>		
Manufacturer	-	Fairyland Environmental Technology, China
No. of units		1
Gas Flow Capacity	m <sup>3</sup> /hr	Maximum – 2,500
Retention Time	second	>0.3 at 800-1,000°C
Gas Blower	-	Twin-lobe root blower
Gas Analyser	-	For CH <sub>4</sub> and O <sub>2</sub>
<b>Gas Extraction System</b>		
Manufacture		Q2 Engineering Sdn. Bhd., / Q2 A/S Denmark
Type of Gas Extraction System		Gas Wells
<b>Gas Engine and Generator</b>		
Manufacturer	-	MWM MWM MTU
Gross electricity output	MW	1.19 3.12 2
Voltage	KV	11 0.415 11
Number of genset	unit	1 2 1

As a result of this verification, the verifier confirms that:

- all operations of the project are implemented and installed as planned and described in the validated project design document.
- the monitoring plan is in accordance with the applied approved CDM methodology, i.e., ACM0001, version 18.0: “Flaring or use of landfill gas”.
- the installed equipment essential for measuring parameters required for calculating emission reductions are calibrated appropriately.
- the monitoring system is in place and functional. The project has generated GHG emission reductions.

As the result of the 2nd periodic verification of CPII, the verifier confirms that the GHG emission reductions are calculated without material misstatements in a conservative and appropriate manner. TÜV NORD JI/CDM CP herewith confirms that the project has achieved emission reductions in the above mentioned reporting period as follows:

Emission reductions: **171,020 tCO<sub>2</sub>e**

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

### B.1. Verification team member

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 review	On-site inspection	Interview(s)	Verification findings
1.	Team Leader /	EI	Cheong	Chun Yuen (Robert)	TÜV NORD Malaysia	x	x	x	x

### 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 DOE or outsourced entity)
1.	Technical reviewer	EI	Lubanga	David	-
2.	Approver	IR	Rami	Kunal	TÜV NORD CERT GmbH
3.	Technical reviewer	IR	Winter	Stefan	TÜV NORD CERT GmbH

## SECTION C. Application of materiality

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

In order to ensure a complete, transparent and timely execution of the verification task the team leader has planned the complete sequence of events necessary to arrive at a substantiated final verification opinion.

Various tools have been established in order to ensure an effective verification planning.

#### Materiality Threshold

The verification is based on the materiality threshold identified in table C-1 below:

**Table C-1:** Applied Materiality Threshold

	Threshold	Related to
<input type="checkbox"/>	0.5 %	Emission reductions or removals for registered CDM project activities achieving a total emission reduction or removal equal to or more than 500,000 tonnes of carbon dioxide equivalent per year <sup>1</sup> ;
<input type="checkbox"/>	1 %	Emission reductions or removals for registered CDM project activities achieving a total emission reduction or removal of between 300,000 and 500,000 tonnes of carbon dioxide equivalent per year;

<sup>1</sup> A year refers to a period of 12 consecutive months.

	Threshold	Related to
<input checked="" type="checkbox"/>	2 %	Emission reductions or removals for registered large-scale CDM project activities achieving a total emission reduction or removal of 300,000 tonnes of carbon dioxide equivalent per year or less;
<input type="checkbox"/>	5 %	Emission reductions or removals for registered small-scale CDM project activities other than registered CDM project activities covered under next category below;
<input type="checkbox"/>	10 %	Emission reductions or removals for the type of registered CDM project activities referred to in decision 3/CMP.6, paragraph 38 (referred to as microscale project activities).

### Strategic Analysis

At the beginning of the verification the verification team leader has assessed the nature, scale and complexity of the verification tasks by carrying out a strategic analysis of all activities relevant to the project activity. The team leader has collected and reviewed the information relevant to assess that the designated verification team is sufficiently competent to carry out the verification and to ensure that it is able to conduct the necessary risk analysis.

### Risk analysis and detailed audit testing planning

For the identification and assessment of potential reporting risks and to determine the necessary detailed audit testing procedures for residual risk areas the following table is used.

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.				

On the basis of the risk analysis the verification has been planned. A detailed audit / verification plan has been prepared and submitted to the project participant(s) in due time before the site visit.

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

Based on the verification planning the verification has been carried out. The concept of materiality has been considered. A breakdown of the chosen approaches is included in the following table.

Parameter	Approach*	Errors* detected	Findings reference	Corrected	Remaining verification risk
Management of SWDS	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
Op <sub>j,h</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
EG <sub>PJ,y</sub>	CDC	<input checked="" type="checkbox"/>	CAR E.7-1	<input checked="" type="checkbox"/>	Not material
EG <sub>EC,y</sub>	CDC	<input checked="" type="checkbox"/>	CAR E.7-2	<input checked="" type="checkbox"/>	Not material
f <sub>y</sub>	CDC	<input checked="" type="checkbox"/>	CAR E.8-1	<input type="checkbox"/>	Not material
T <sub>EG,m</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
Flame <sub>m</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
V <sub>t,wb</sub>	CDC	<input checked="" type="checkbox"/>	CAR E.7-3	<input checked="" type="checkbox"/>	Not material
V <sub>CH4,m,db</sub>	CDC	<input checked="" type="checkbox"/>	CAR E.7-4 CAR E.8-2	<input checked="" type="checkbox"/>	Not material
T <sub>t</sub> (T <sub>TT1,GSSF1</sub> , T <sub>TT1,F2</sub> , T <sub>TT1,GSS1</sub> , T <sub>TT1,GSS2</sub> )	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
P <sub>t</sub> ( P <sub>PT2, F2</sub> , P <sub>PT2, GSS1</sub> , P <sub>PT2, GSS2</sub> )	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
P <sub>H2O,t,Sat</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
V <sub>CO2,t,db</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material

V <sub>O2,t,db</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
Status of biogas destruction device	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
FC <sub>i,j,y</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
EF <sub>CO2,i,y</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
NCV <sub>i,y</sub>	CDC	<input type="checkbox"/>		<input type="checkbox"/>	Not material
Aggregate					Materiality threshold not exceeded

\*) incl. omissions and misstatements

+) Verification Approaches:

CDC:

Complete data check of data including all data aggregation steps

NDG:

Non-complete data check – omissions not material

SPL:

Sampling approach (all data available)

ASP:

Acceptance Sampling

COM:

Data check at higher data aggregation levels and sampling at original data levels

The verification was basically carried out as per the verification plan. However, based on the actual situation on-site and the errors, omissions and misstatements identified during the verification minor deviations from the original plan occurred. However, due to the insignificance no major revision of the overall plan was required

## SECTION D. Means of verification

### D.1. Desk/document review

During the desk review all documents initially provided by the client and publicly available documents relevant for the verification were reviewed. The main documents are listed below:

- The approved revised PDD including the monitoring plan<sup>/PDD1/</sup>
- the approved revised validation report<sup>/VAL/</sup>,
- the monitoring report, including the claimed emission reductions for the project<sup>/MR/</sup>,
- the emission reduction calculation spreadsheet<sup>/ER1/</sup>.

Other supporting documents, such as publicly available information on the UNFCCC website and background information were also reviewed

### D.2. On-site inspection

Duration of on-site inspection: 02/04/2019 & 03/04/2019				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening Meeting, MR, Plant Inspection, Equipment, Calibration, Document Review	Bukit Tagar	02/04/2019	Cheong, Chun Yuen (Robert)
3.	Review MR, ER calculations, Reporting and Closing Meeting	Kuala Lumpur	03/04/2019	

### D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Mohd Zain	Zainal Fikry	KBE / CDM Manager /IM01/	02/04/2019	Plant Inspection, Calibration reports, MR, Document review	Winter, Rainer Cheong, Chun Yuen (Robert)
2	Abd Aziz	Mustaffa Kamal	KBE / Electrical Engineer /IM01/			
3.	Chen	Saw Ling	Eco-Ideal / Consultant (IM02/	02/04/2019	Plant Inspection,	

4	Azmi	Khairul Azmeer	Eco-Ideal / Consultant /IM02/	03/04/2019	Calibration reports, MR, Document review ER spreadsheet Reporting, Closing Meeting	
5.	Mohamad	Noraiza Safia	Eco-Ideal / Consultant /IM02/			
6	Ishak	Nur Aini	Eco-Ideal / Consultant /IM02/			

#### D.4. Sampling approach

##### D.4.1 Sampling during monitoring

<input checked="" type="checkbox"/>	No sampling approach has been used by the PP to determine the monitored parameters				
<input type="checkbox"/>	A sampling approach has been taken for the following monitored parameter(s):				
	Parameter	Sampling approach <sup>1)</sup>	Sampling Type <sup>2)</sup>	Population	Sample Size

<sup>1)</sup> Sampling Approaches:

SiRS: Simple Random Sampling  
 StRS: Stratified Random Sampling  
 SS: Systematic Sampling  
 CS: Cluster Sampling  
 MSS: Multi-stage Sampling

<sup>2)</sup> Sampling Types:

PS: Parameter Sampling

##### D.4.2 Sampling approaches during verification

<input checked="" type="checkbox"/>	No sampling approach has been used by the VT to verify the monitored parameters				
<input type="checkbox"/>	A sampling approach has been applied by the VT for the following monitored parameter(s):				
	Parameter	Sampling approach <sup>1)</sup>	Sampling Type <sup>2)</sup>	Population	Sample Size

<sup>1)</sup> Sampling Approaches:

SiRS: Simple Random Sampling  
 StRS: Stratified Random Sampling  
 SS: Systematic Sampling  
 CS: Cluster Sampling  
 MSS: Multi-stage Sampling

<sup>2)</sup> Sampling Types:

AS: Acceptance Sampling  
 PS: Parameter Sampling  
 COM: Full data check at higher data aggregation levels and sampling at original data levels

During the on-site verification, no sampling approach has been used by the verification team to verify the reported values for the monitored parameters as listed in section D.2 of the MR. All electricity data listed in the ER spreadsheet were 100% checked and reviewed against the submitted electricity protocol and cross-checked with the sales invoices

### 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 (E.1)	0	0	0
Compliance of the project implementation and operation with the registered PDD (E.3)	0	1	0
Post-registration changes (E.4)	0	0	0
Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines (E.5)	0	0	0
Compliance of monitoring activities with the registered monitoring plan (E.6)	0	3	0
Compliance with the calibration frequency requirements for measuring instruments (E.7)	0	4	0
Assessment of data and calculation of emission reductions or net removals (E.8)	0	7	0
Assessment of reported sustainable development co-benefits (E.9)	0	0	0
Global stakeholder consultation (E.10)	0	0	0
Others (please specify)	0	0	0
<b>Total</b>	<b>0</b>	<b>15</b>	<b>0</b>

## SECTION E. Verification findings

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

<b>Means of verification</b>	<p>A draft monitoring report was submitted to the verification team by the project participants. The DOE has made this report publicly available prior to the start of the verification activities. No comments were received.</p> <p>By means of the UNFCCC website, it has been checked whether the latest applicable MR template CDM-MR-FORM has been used.</p> <p>Further, it has been checked whether the latest instructions for filling out the MR template have been followed. Every section has been checked against the respective guidance.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /MRT/</li> <li>• /unfccc/</li> </ul>	
<b>Findings</b>	<input checked="" type="checkbox"/>	The latest reporting template CDM-MR-FORM as listed on the UNFCCC website has been used for the Monitoring Report to be uploaded.
	<input type="checkbox"/>	The latest instructions for filling out the MR have been followed. No adverse finding has been identified in the course of this verification.
	<input type="checkbox"/>	The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context:
<b>Conclusion</b>	<input checked="" type="checkbox"/>	No CARs / CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs / CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details, please refer to Appendix 4.
	<p>The verification team has checked all sections of the MR and confirms by means of comparing the MR that has been used with the standardized MR template.</p> <p>It could be concluded the MR is completed according to the MR template requirements.</p>	



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

During the validation, the validating DOE might have raised issues that could not be closed or resolved during the validation stage. For this purpose, FARs might have been raised. Likewise, FARs might have been raised in the course of previous verifications.

In the course of this verification the latest version of the PDD and the previous verification report, where applicable, have been checked in order to identify any remaining forward action requests. For the current monitoring period, the following applies:

**(i) Open issues from validation:**

<input checked="" type="checkbox"/>	There were no open issues which have been addressed in the latest version of the validation report.
<input type="checkbox"/>	All open issues from the validation have been appropriately addressed in the context of previous verifications.
<input type="checkbox"/>	All issues related to the validation have been appropriately addressed in the course of the current monitoring period (for details please refer to appendix 4)
<input type="checkbox"/>	The following issues related to the validation have <b>not</b> yet been appropriately addressed (for details please refer to appendix 4):
	N/A

**(ii) Open issues from previous verifications:**

<input checked="" type="checkbox"/>	N/A – as this is the first monitoring period of CPII for this CDM project activity.
<input type="checkbox"/>	There were no open issues which have been addressed in the previous verification report
<input type="checkbox"/>	All issues related to the previous verification have been appropriately addressed in the course of the current monitoring period (for details please refer to appendix 4)
<input type="checkbox"/>	The following issues related to the previous verification have <b>not</b> yet been appropriately addressed (for details please refer to appendix 4):
	N/A

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

<b>Means of verification</b>	<p>By means of an in-depth review of the approved revised PDD in its latest form as downloaded from the UNFCCC project page site and the checks carried out during the on-site visit an assessment has been carried out whether the project has been implemented and operated in line with the latest approved version of the PDD and whether all physical features of the project are in place.</p> <p>The verification team has checked the information in the monitoring report and compared against the approved revised PDD.</p> <p>During the onsite inspection, the verification team has checked the project location, implementation, technology applied, project equipment, metering and monitoring system and compared against the information in the approved revised PDD.</p> <p>Interviews with operational personnel have been carried out, generation records, equipment / instrument specifications were checked in this context.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /PDD1/</li> <li>• /MR/</li> <li>• /ER1/</li> <li>• /E1-E17/</li> <li>• /ER7/</li> <li>• /IM01/</li> <li>• /IM02/</li> <li>• /unfccc/</li> </ul>	
<b>Findings</b>	<input checked="" type="checkbox"/>	The project has been implemented as described in the latest version of the PDD as well as in section B.1 of the monitoring report. No deviations thereof have been identified in the course of this verification.

	<input type="checkbox"/>	The following deviations from the registered project design and or the project description in the MR have been identified in the course of this verification (for further details please refer to section E.4): N/A
	<input checked="" type="checkbox"/>	In this context the following CARs, CLs have been raised: CAR E.3-1
	<i>In case of phased implementation:</i>	
	<input checked="" type="checkbox"/>	N/A
	<input type="checkbox"/>	The phased implementation has correctly and in sufficient detail been described in the latest version of the PDD.
	<input type="checkbox"/>	The description in section B.1 of the MR differs in content or the level of detail from the latest version of the PDD. However, the description in the MR is correct and reflects the situation during the site inspection.
	<input type="checkbox"/>	The project description in the PDD/MR is not deemed sufficient. The detailed implementation timeline is as follows: N/A
<b>Conclusion</b>	<input type="checkbox"/>	No CARs / CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs / CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	During the verification an onsite visit was carried out. On the basis of the site visit and the reviewed of project documentation and after correction it can be confirmed that w.r.t. the realized technology, the project equipment, as well as the monitoring and metering equipment, the project has been implemented and operated as described in the approved revised PDD.	

**E.4. Post-registration changes**

- ☒ By means of site visit, document check and interview it could be verified that the project is implemented and operated in line with the registered PDD and the applied methodology.
- ☐ Post registration changes have been identified and are assessed in detail in the subsequent steps.

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

It has been checked whether Temporary deviations from the registered monitoring plan (TDfrMP) or Temporary deviations from monitoring methodology or standardized baseline (TDfMM) have been applied during this monitoring period. The result is summarized in the table below.

<input checked="" type="checkbox"/>	No Temporary deviations from the registered monitoring plan (TDfrMP) or Temporary deviations from monitoring methodology or standardized baseline (TDfMM).have been submitted to the UNFCCC prior to the current monitoring period.		
<input type="checkbox"/>	The following TDfrMP or TDfMM have been approved or are under approval by the UNFCCC		
	1	Title	
		Status	<input type="checkbox"/> under approval; <input type="checkbox"/> approved (approval No.: )
		Appr.date	
		Ref. No.	
	2	Title	
		Status	<input type="checkbox"/> under approval; <input type="checkbox"/> approved (approval No.: )
		Appr.date	
		Ref.No.	
<input checked="" type="checkbox"/>	During the verification of the current MP no need for a TDfrMP or TDfMM has been identified. The monitoring plan is in accordance with the approved methodology applied by the PA		

<input type="checkbox"/>	An approval of the following TDfMP or TDfMM is to be requested from the EB for the current MP as appendix 1 of the project standard does not apply. Please refer to the related PRC report submitted along with this issuance request for further details w.r.t. the assessment of the PRC.	
	1	Issue:
	2	Issue:
<input type="checkbox"/>	The following TDfMP or TDfMM for which appendix 1 of the PS is applicable have been applied:	
	1	Issue:
	2	Issue:

**E.4.2. Corrections**

It has been checked whether any corrections to project information or parameters fixed at validation have been approved during this monitoring period or submitted with this monitoring report. The result is summarized in the table below.

<input checked="" type="checkbox"/>	During the verification of the current MP no need for corrections has been identified.	
<input type="checkbox"/>	The following corrections have been applied:	
	1	Issue:
	2	Issue:
	3	Issue:
	<input type="checkbox"/> A related post registration change has been submitted prior to the issuance request. The approval has been received on DD/MM/YYYY via approval number PRC-XXXX-00Z.	
	<input type="checkbox"/> A related post registration change is submitted along with this issuance request. Please refer to the related PRC report submitted along with this issuance request for further details w.r.t. the assessment of the PRC.	

**E.4.3. Change to the start date of the crediting period of the project activity**

<input type="checkbox"/>	N/A - as this is not the first verification within the crediting period
<input checked="" type="checkbox"/>	The PPs do not intend to change the start date of the crediting period.
<input type="checkbox"/>	As the change in the start date was below the related time period as indicated in PS § 277 and § 278 no prior approval was required but only a notification. This notification has been submitted by the PP without involvement of the DOE. The change and new start date has been checked from the related UNFCCC project webpage.
<input type="checkbox"/>	The PPs intend to change the start date of the crediting period. As the intended change in start date beyond the related time period as indicated in PS § 279 prior approval by the Board is required. For detailed assessment of the change please refer to related PRC validation report. As per assessment in this report the DOE confirms that the change to the start date of the crediting period are in line with the related requirements of the VVS and PS.
<input type="checkbox"/>	The approval to change the start date of the crediting period has been received on DD/MM/YYYY via approval number PRC-XXXX-00Z

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

<input checked="" type="checkbox"/>	N/A - as this monitoring plan was part of the registered PDD
<input type="checkbox"/>	In line with PS § 281 or § 282 the PP has forwarded a monitoring plan to the DOE for validation. No prior approval of the monitoring plan was required as the PP in line with PS § 282 wished to submit the monitoring plan together with the request for issuance for the first monitoring period. Please refer to the related PRC report submitted along with this issuance request for further details w.r.t. the assessment of the PRC.

<input type="checkbox"/>	In line with § 282 the PP submitted a monitoring plan prior to the submission of the request for issuance for validation to the DOE. A DOE has assessed the monitoring plan in line with related VVS requirements and submitted a related PRC report for prior approval. The approval has been received on DD/MM/YYYY via approval number PRC-XXXX-00Z.
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#### E.4.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other applied standards or tools

It has been checked whether any permanent changes from the registered monitoring plan (PCfrMP) or applied methodologies (PCfMM) including standardized baselines (PCfSB) have been approved prior or during this monitoring period or submitted with this monitoring report. The result is summarized in the table below.

<input type="checkbox"/>	No PCfrMP, PCfMM or PCfSB have been submitted to the UNFCCC prior to the current monitoring period		
<input checked="" type="checkbox"/>	The following PCfrMP, PCfMM or PCfSB have been approved or are under approval by the UNFCCC		
	1	Title	A revision for the monitoring plan for converting Flare No.1 to GSSF1. Gas engine No. 1 which was attached to Flare 2 previously has been converted to GSSF1
		Status	<input type="checkbox"/> under approval; <input checked="" type="checkbox"/> approved
		Appr. date	PRC-2467-005
		Ref. No.	21/06/2018
<input checked="" type="checkbox"/>	During the verification of the current MP no need for a PCfrMP, PCfMM or PCfSB has been identified. The monitoring plan is in accordance with the approved methodology applied by the PA		
<input type="checkbox"/>	An approval of the following PCfrMP, PCfMM or PCfSB is to be requested from the EB for the current MP as appendix 1 of the project standard does not apply.		
	1	Issue:	
	2	Issue:	
<input type="checkbox"/>	The following PCfrMP, PCfMM or PCfSB for which appendix 1 of the PS is applicable have been applied:		
	1	Issue:	
	2	Issue:	

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

It has been checked whether any changes to the project design (CoPD) have been approved prior or during this monitoring period or submitted with this monitoring report. The result is summarized in the table below.

<input checked="" type="checkbox"/>	No CoPD has been submitted to the UNFCCC prior to the current monitoring period		
<input type="checkbox"/>	The following CoPD have been approved or are under approval by the UNFCCC		
	1	Title	
		Status	<input type="checkbox"/> under approval; <input type="checkbox"/> approved
		Appr. date	
		Ref. No.	
	2	Title	
		Status	<input type="checkbox"/> under approval; <input type="checkbox"/> approved
		Appr. date	

	Ref. No.	
<input checked="" type="checkbox"/>	During the verification of the current MP no need for a CoPD has been identified. The monitoring plan is in accordance with the approved methodology applied by the PA	
<input type="checkbox"/>	An approval of the following CoPD is to be requested from the EB for the current MP as appendix 1 of the project standard does not apply.	
	1	Issue:
	2	Issue:
<input type="checkbox"/>	The following CoPD for which appendix 1 of the PS is applicable have been applied:	
	1	Issue:
	2	Issue:

**E.4.7. Changes specific to afforestation and reforestation project activities**

<input checked="" type="checkbox"/>	N/A. The project activity is not an afforestation and reforestation project activities
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**E.5. Compliance of the registered monitoring plan with the methodology including applicable tools and standardized baselines**

<b>Means of verification</b>	By means of comparison of the MR with (i) the applied CDM methodology (ii) all applicable CDM Meth tools and the verification team has checked whether the MP is in compliance with the MP related requirements of the applied methodology / tools. The following sources of information have been used in this context: <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /PDD1/</li> <li>• /ACM1/</li> <li>• /ESW/PER/TPL/PLEC/TMF/</li> <li>• /unfccc/</li> </ul>								
<b>Findings</b>	<input checked="" type="checkbox"/>	The MP is completely in accordance with the approved methodology applied by the CDM project (last registered/approved version of the PDD) The breakdown of MP accordance of the referenced tools is as follows:							
	<input checked="" type="checkbox"/>	1	<table border="1"> <tr> <td>Title (of the tool)</td> <td>Emissions from solid waste disposal sites</td> </tr> <tr> <td>Version</td> <td>07.0</td> </tr> <tr> <td>MP compliance</td> <td> <input type="checkbox"/> full compliance  <input type="checkbox"/> findings have been raised  <input checked="" type="checkbox"/> N/A (for MP)               </td> </tr> </table>	Title (of the tool)	Emissions from solid waste disposal sites	Version	07.0	MP compliance	<input type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input checked="" type="checkbox"/> N/A (for MP)
Title (of the tool)		Emissions from solid waste disposal sites							
Version		07.0							
MP compliance		<input type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input checked="" type="checkbox"/> N/A (for MP)							
2		<table border="1"> <tr> <td>Title (of the tool)</td> <td>Tool to calculate project or leakage CO<sub>2</sub> emissions from fossil fuel combustion</td> </tr> <tr> <td>Version</td> <td>02.0.0</td> </tr> <tr> <td>MP compliance</td> <td> <input checked="" type="checkbox"/> full compliance  <input type="checkbox"/> findings have been raised  <input type="checkbox"/> N/A (for MP)               </td> </tr> </table>	Title (of the tool)	Tool to calculate project or leakage CO <sub>2</sub> emissions from fossil fuel combustion	Version	02.0.0	MP compliance	<input checked="" type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input type="checkbox"/> N/A (for MP)	
Title (of the tool)		Tool to calculate project or leakage CO <sub>2</sub> emissions from fossil fuel combustion							
Version		02.0.0							
MP compliance		<input checked="" type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input type="checkbox"/> N/A (for MP)							
3		<table border="1"> <tr> <td>Title (of the tool)</td> <td>"Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation"</td> </tr> <tr> <td>Version</td> <td>02.0.0</td> </tr> <tr> <td>MP compliance</td> <td> <input type="checkbox"/> full compliance  <input type="checkbox"/> findings have been raised  <input checked="" type="checkbox"/> N/A               </td> </tr> </table>	Title (of the tool)	"Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation"	Version	02.0.0	MP compliance	<input type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input checked="" type="checkbox"/> N/A	
Title (of the tool)	"Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation"								
Version	02.0.0								
MP compliance	<input type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input checked="" type="checkbox"/> N/A								

		4	Title (of the tool)	Project emissions from flaring
			Version	02.0.0
			MP compliance	<input checked="" type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input type="checkbox"/> N/A (for MP)
		5	Title (of the tool)	Tool to determine the mass flow of a greenhouse gas in a gaseous stream
			Version	03.0
			MP compliance	<input checked="" type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input type="checkbox"/> N/A (for MP)
		6	Title (of the tool)	Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period
			Version	03.0.1.0
			MP compliance	<input type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input checked="" type="checkbox"/> N/A (for MP)
	<input type="checkbox"/>	The breakdown of MP accordance of the applicable SB is as follows:		
Title (of the SB)				
Version				
MP compliance				
<input type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised:			
<b>Conclusion</b>	<input checked="" type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.		
	<input type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.		
	The applied methodology and prescribed applicable tools are consistent with the versions in UNFCCC website. No standardised baseline is applied.			

## 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

<b>Means of verification</b>	The verification team has checked the ex-ante parameters and data stated in Section D.1 of MR and compared with section B.6.2 of the approved revised PDD whether all parameters fixed ex-ante for the crediting period have been applied correctly.				
	The following list of ex-ante fixed parameters have been applied:				
	Nbr	Parameter abbreviation	Description	Value	Unit
	1	OX <sub>top_layer</sub>	Fraction of methane that would be oxidized in the top layer of the SWDS in the baseline	0.1	Dimensionless
	2	GWP <sub>CH4</sub>	Global warming	25	tCO <sub>2</sub> e/tCH <sub>4</sub>

		potential of CH <sub>4</sub>																
3	$\eta_{PJ}$	Efficiency of the LFG capture system that will be installed in the project activity	90%	Dimensionless														
4	$\phi_{\text{default}}$	Default value for the model correction factor to account for model uncertainties	0.75	-														
5	OX	Oxidation factor (reflecting the amount of methane from SWDS that is oxidized in the soil or other material covering the waste)	0.1	N/A														
6	F	Fraction of methane in the SWDS gas (volume fraction)	0.5	N/A														
7	$\text{DOC}_{f,\text{default}}$	Default value for fraction of degradable organic carbon (DOC) in MSW that decomposes in the SWDS	0.5	Weight Fraction														
8	$\text{MCF}_{\text{default}}$	Methane correction factor	1.0	N/A														
9	$\text{DOC}_j$	Fraction of degradable organic carbon (by weight) in the waste type j	<table border="1"> <thead> <tr> <th>Waste Type j</th><th><math>\text{DOC}_j</math> (%wet waste)</th></tr> </thead> <tbody> <tr> <td>Wood &amp; Wood Waste</td><td>43</td></tr> <tr> <td>Pulp, paper &amp; cardboard (other than sludge)</td><td>40</td></tr> <tr> <td>Food, food waste, beverage &amp; tobacco (other than sludge)</td><td>15</td></tr> <tr> <td>Textile</td><td>24</td></tr> <tr> <td>Garden, yard &amp; park waste</td><td>20</td></tr> <tr> <td>Glass, plastic, metal, other inert waste</td><td>0</td></tr> </tbody> </table>	Waste Type j	$\text{DOC}_j$ (%wet waste)	Wood & Wood Waste	43	Pulp, paper & cardboard (other than sludge)	40	Food, food waste, beverage & tobacco (other than sludge)	15	Textile	24	Garden, yard & park waste	20	Glass, plastic, metal, other inert waste	0	-
Waste Type j	$\text{DOC}_j$ (%wet waste)																	
Wood & Wood Waste	43																	
Pulp, paper & cardboard (other than sludge)	40																	
Food, food waste, beverage & tobacco (other than sludge)	15																	
Textile	24																	
Garden, yard & park waste	20																	
Glass, plastic, metal, other inert waste	0																	
10	$k_j$	Decay rate for the waste type j	<table border="1"> <thead> <tr> <th>Waste type j</th><th>Tropical (MAT&gt;200)</th></tr> </thead> <tbody> <tr> <td></td><td></td></tr> </tbody> </table>	Waste type j	Tropical (MAT>200)			1/yr										
Waste type j	Tropical (MAT>200)																	

				C) <u>dry</u> (MAP> 1000mm)		
				Slowly degrading	Pulp, paper, cardboard (other than sludge), textile	0.07
					Wood, wood product & straw	0.035
				Moderately Degrading	Other (non-food) organic putrescible garden & park waste	0.17
				Rapidly Degrading	Food, food waste, sewerage sludge, beverage & tobacco	0.40
	11	$SPEC_{flare}$	Manufacturer's flare specifications for temperature, flow rate and maintenance schedule	Minimum and maximum operating temperature = 0 to 1,200°C Minimum and maximum inlet flow rate = 0 – 2,500 Nm <sup>3</sup> /h		Temperature - °C Flow rate or heat flux – kg/h or m <sup>3</sup> /h
	12	$TDL_{k,y}$	Average technical transmission and distribution losses for providing electricity to source k in year y	7.74		%
	13	$EF_{grid,OM,y}$	Operating margin emission factor for the grid in year y	0.6532		tCO <sub>2</sub> /MWh
	14	$EF_{grid,BM,y}$	Build margin emission factor for the grid in year y	0.7350		tCO <sub>2</sub> /MWh
	15	$EF_{grid,CM,y}$	Combined margin emission factor for the grid in year y	0.7146		tCO <sub>2</sub> /MWh
	16	$MM_{H_2O}$	Molecular mass of H <sub>2</sub> O	18.0152		kg/kmol
	17	$R_u$	Universal ideal gases constant	8,314		Pa.m <sup>3</sup> /kmol.K



	18	MM <sub>CO2</sub>	Molecular mass of greenhouse gas CO <sub>2</sub>	44.01	kg/kmol
	19	MM <sub>CH4</sub>	Molecular mass of CH <sub>4</sub>	16.04	kg/kmol
	20	MM <sub>O2</sub>	Molecular mass of gas O <sub>2</sub>	32.00	kg/kmol
	<p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /ER/</li> <li>• /PDD1/</li> <li>• /PS/</li> <li>• /VVS/</li> <li>• /unfccc/</li> </ul>				
<b>Findings</b>	<input checked="" type="checkbox"/>	The MR and the ER calculation have considered the parameters fixed ex-ante for the crediting period correctly, no deviations have been observed.			
	<input type="checkbox"/>	The following deviations from the parameters fixed ex-ante or at renewal of crediting period have been identified in the course of this verification:			
	<input type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised:			
<b>Conclusion</b>	<input checked="" type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.			
	<input type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.			
	The data and parameters listed in the section D.1 of MR are cross-checked with the applied methodology, subscribed tools, approved revised PDD, ER and are consistent.				

#### E.6.2. Data and parameters monitored

<b>Means of verification</b>	<p>During the verification all monitoring parameters listed in Section D.2 of MR were compared with section B.7.1 of the approved revised PDD have been verified with regard to the:</p> <ul style="list-style-type: none"> <li>(i) appropriateness of the applied measurement / determination method,</li> <li>(ii) the correctness of the values applied for ER calculation,</li> <li>(iii) the accuracy, and applied QA/QC measures.</li> </ul> <p><b>Flare No. 2:</b></p> <p>According to ACM0001, version 18, page 15, if the LFG is used for multiple purposes (e.g. flaring or energy generation), and all methane destruction devices are verified to be operational (e.g. by means of flame detector records, energy generated), a single flow meter may be used to record the flow into multiple destruction devices.</p> <p>According to the approved revised PDD version 20.5 total LFG (FT1) captured is combusted at the flare (FT2). The total LFG captured should be equal to LFG flared and LFG combusted for electricity generation.</p> <p>With Gas Engine No.1 was converted to GSSF1 and operations starts from 01/06/2017, only one flow meter (FT2) remained for Flare No. 2, therefore, no comparison as from 01/06/2017.</p> <p><b>GSS1 (Gas Engine No. 2 and 3), GSS2 (Gas Engine No. 4) and GSSF1 (Gas Engine 1)</b></p>
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	<p>According to ACM0001, version 8<sup>2</sup>, page 15 of section III monitoring methodology, the amount of landfill gas generated (in m<sup>3</sup> using a continuous flow meter), where the total quantity (LFG<sub>total</sub>), as well as the quantities fed to the flare (s) (LFG<sub>flare</sub>), to the power plant (s) (LFG<sub>electricity</sub>) are measured continuously. In the case where LFG is just sent to the power plants (gas engines) for electricity generation, one flow meter can be used provided that these meters used are calibrated periodically by an officially accredited entity.</p> <p>The total LFG captured for GSS1, GSS2 and GSSF1 for this monitoring period is the same as the total LFG sent to the GSS1 gas engines 2 &amp; 3, GSS2 gas engine 4 and GSSF1 gas engine 1. The amount of landfill gas generated and captured that is channelled to GSS1, GSS2 and GSSF1 is measured continuously by a flow meter for each system.</p> <p>According to the "Tool to determine the mass flow of a greenhouse gas in a gaseous stream" version 3.0, monitoring of T1, temperature of the gaseous stream and in this case is the LFG temperature is below 60°C, the moisture content can be neglected since the measurement in wet or dry basis are not important. In the case where the LFG temperature exceeds 60°C, the same basis for both methane concentration and flow measurement will be considered according to the tool.</p> <p>During the monitoring period, several minutes of each day, the temperature of LFG exceeded 60°C. Therefore, option 2 from the "Tool to determine the mass flow of a greenhouse gas in a gaseous stream" was selected for the ER calculation. The formula in option B of the tool is applied to adjust the flow rate of the CH<sub>4</sub> to a lower value during the time of the day when the temperature is above 60°C.</p> <p>The raw data spreadsheets were reviewed to confirm the flow rate is re-calculated before taken into the ER calculations for this monitoring period.</p> <p>The results as well as the verification procedure are described parameter-wise in the project specific verification checklist (Appendix 5 table A-5).</p>	
<b>Findings</b>	<input checked="" type="checkbox"/>	The monitored parameters are in accordance to the registered PDD.
	<input checked="" type="checkbox"/>	The following have been identified in the course of this verification: CAR E.6-1, CAR E.6-2, CAR E.6-3
<b>Conclusion</b>	<input type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		<p>During the verification all relevant monitoring parameters (as listed in chapter B.7.1 of the approved revised PDD) have been verified with regard to the appropriateness of the applied measurement / determination method, the correctness of the values applied for ER calculation, the accuracy, and applied QA/QC measures. The results as well as the verification procedure are described parameter-wise in the project specific verification checklist.</p> <p>After corrections, it can be concluded that all monitoring parameters have been measured / determined without material misstatements and in line with all applicable standards and relevant requirements.</p>

### E.6.3. Implementation of sampling plan

<b>Means of verification</b>	<p>The verification team has been checked whether the PPs have applied a sampling approach to determine the monitored values.</p> <p>Further it has been checked whether the PPs have correctly applied the implemented sampling plan including</p> <ul style="list-style-type: none"> <li>(i) description of the implemented sampling design</li> <li>(ii) collected data</li> </ul>
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<sup>2</sup> The ACM0001 - Consolidated baseline and monitoring methodology for landfill gas project activities (Version 8) is no longer valid and is not available for download in UNFCCC. The version has been replaced with Version 8.1.

	<p>(iii) analysis of collected data</p> <p>(iv) demonstration on whether the required confidence/precision has been met.</p> <p>The following sources of information have been used in this context.</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /ER/</li> <li>• /PDD1/</li> </ul>			
<b>Findings</b>	<input checked="" type="checkbox"/>	The PPs have not applied sampling approaches for the parameters monitored.		
	<input type="checkbox"/>	The PPs have applied sampling approaches for the following parameters monitored.		
		1	Parameter:	
			Name:	
			Description on how the sampling efforts and survey comply with the validated sampling plan:	
	2	Parameter:		
		Name:		
		Description on how the sampling efforts and survey comply with the validated sampling plan:		
	<input type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised:		
<b>Conclusion</b>	<input checked="" type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.		
	<input type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.		
	No sampling was applied to determine the monitored parameters.			

#### E.7. Compliance with the calibration frequency requirements for measuring instruments

<b>Means of verification</b>	<p>During the verification, the relevant monitoring equipment have been checked whether the calibration requirements have been met; especially if the calibration frequency is in line with the requirements of the approved revised PDD and / or the applicable calibration standards.</p> <p>The calibration frequency of the electricity meters, flow meters, temperature transmitters, pressure transmitters and methane gas analysers are crosscheck with the approved revised PDD against the calibration reports.</p> <p>The calibration frequency, validity and calibration dates for all instruments are listed in Appendix 6. The calibration records cover the monitoring period are maintained and verified by the verification team.</p> <p>The results as well as the verification procedure are described instrument-wise in the project specific verification checklist Appendix 5.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /CF11 to CF17/</li> <li>• /CF21 to CF26/</li> <li>• /CF31 to CF38/</li> <li>• /CF41 to CF46/</li> <li>•</li> </ul>	
<b>Findings</b>	<input checked="" type="checkbox"/>	Inconsistencies of the calibration information with calibration reports.
	<input type="checkbox"/>	Based on the assessment and information as per appendix 5 delay(s) in calibration have been identified. The PP has applied the maximum

		<p>permissible error of the instrument to the measured values taken during the period between the scheduled date of calibration and the actual date of calibration.</p> <p>From the related calibration certificates and emission reduction calculation the verification team confirms that the maximum permissible error has been applied in a conservative manner so that the adjusted measured values due to the delayed calibration result in fewer claimed emission reductions.</p> <p>For details please refer to appendix 6</p>
	<input type="checkbox"/>	The metering diagram reflects the actual situation and is in line with the registered PDD and with the requirements of the applied methodology
	<input checked="" type="checkbox"/>	<p>In this context the following CARs, CLs, FARs have been raised:</p> <p>CAR E.7-1, CAR E.7-2, CAR E.7-3, CAR E.7-4</p>
<b>Conclusion</b>	<input type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		<p>The calibrations for all measuring instruments have been verified as listed in Appendix 6 of this report.</p> <p>Based on the details listed in appendix 6 the verification team could confirm that all installed monitoring equipment have been duly calibrated.</p> <p>It could be concluded, after due calibrations have been conducted; the above findings have been closed out.</p> <p>The monitoring and instruments diagram is in accordance with the actual situation implemented at project site.</p>

## E.8. Assessment of data and calculation of emission reductions or net removals

### E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

<b>Means of verification</b>	<p>According to the approved revised / registered PDD, the approved baseline and monitoring methodology applied by the project is ACM0001 version 18. The GHG emission reduction of the project is calculated as follows:</p> $ER_y = BE_y - PE_y$ <p>Where:</p> <p><math>ER_y</math> = Emissions reduction in year y (tCO<sub>2</sub>e/y)</p> <p><math>BE_y</math> = Baseline emissions in year y (tCO<sub>2</sub>e/y)</p> <p><math>PE_y</math> = Project emissions in year y (tCO<sub>2</sub>e/y)</p> <p>The equation used to determine the baseline emission stated in the monitoring report is consistent with the approved revised PDD where:</p> $BE_y = BE_{CH_4,y} + BE_{EC,y} + BE_{HG,y} + BE_{NG,y}$ <p>Where:</p> <p><math>BE_y</math> = Baseline emission in year y (tCO<sub>2</sub>e/yr)</p> <p><math>BE_{CH_4,y}</math> = Baseline emission of methane from the SWDS in year y (tCO<sub>2</sub>e/yr)</p> <p><math>BE_{EC,y}</math> = Baseline emissions associated with electricity generation in year y (tCO<sub>2</sub>e/yr)</p> <p><math>BE_{HG,y}</math> = Baseline emissions associated with heat generation in year y (tCO<sub>2</sub>e/yr)</p> <p><math>BE_{NG,y}</math> = Baseline emissions associated with natural gas use in year y (tCO<sub>2</sub>e/yr)</p> <p>The project activity has no heat generation and no natural gas used, therefore, the 2 baselines are:</p> <p>Baseline emissions of methane from SWDS is calculated using the below equation.</p> $BE_{CH_4,y} = (1 - OX_{top\_layer}) \times (F_{CH_4,PJ,y} - F_{CH_4,BL,y}) \times GWP_{CH_4}$ <p>Therefore, <math>BE_{CH_4,y} = 158,096 \text{ tCO}_2\text{e}</math></p> <p><math>V_{CH_4,flare}</math> is the quantity of LFG being combusted in the flare system add the amount of methane being flare according to the flaring efficiency. In order to determine the</p>
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	<p>amount of methane flared, the LFG flared is multiply with the methane density and concentration. The methane concentration and density is continuously monitor by the minute in accordance to the project emissions from flaring version 02.0.0.</p> <p>The PP applies the default value for flaring efficiency. The data were crosscheck to confirm the default values applied are correct.</p> <p>The methane GWP applied in this monitoring period is 25 in accordance to decision 4/CMP7 and § 66 of EB69.</p> <p><math>V_{CH_4, Engine}</math> is the quantity of LFG combusted in the gas engines. In order to determine the amount of methane combusted, the LFG combusted is multiply with the methane density and concentration. The methane concentration and density is continuously monitored by the minute in accordance to the project emissions from flaring version 02.0.0.</p> <p>There is no methane destruction requirements according to host country regulation, therefore, zero</p> <p>There is no thermal energy generated, therefore, zero</p> <p>Baseline emissions associated with electricity generation is represented with below equation:</p> $BE_{EC,y} = \sum kEC_{BL,k,y} \times EF_{EL,k,y} \times (1+TDL_{k,y})$ <p>Therefore, <math>BE_{EC,y} = 14,040 \text{ tCO}_2\text{e}</math></p> <p>The baseline emission reduction for exporting the generated electricity to the grid is calculated using the monitored data of <math>EG_{PJ,y}</math> multiply with the grid emission factor <math>EF_{EL,k,y}</math> and average transmission loss <math>TDL_{k,y}</math>.</p> <p>The grid emission factor applied is an ex-ante value <math>0.7146 \text{ tCO}_2/\text{MWh}</math>, which was available during the project renewal of CP registration.</p> <p>The average transmission is an ex-ante value of 7.74% from 01/01/2018 to 31/12/2017 onwards according to the approved revised PDD.</p> <p>From the above baseline emissions equation,</p> $\begin{aligned} BE_y &= BE_{CH_4,y} + BE_{EC,y} + BE_{HG,y} + BE_{NG,y} \\ &= 158,096 + 14,040 + 0 + 0 \\ &= 172,136 \text{ tCO}_2\text{e (after round down to integral)} \end{aligned}$ <p>During the verification, the calculation of baseline GHG emissions have been check. In detail the following has been verified:</p> <ul style="list-style-type: none"> <li>• <i>Transparency:</i> It has been checked whether the calculation of baseline emissions is fully traceable and, where used, the Excel calculation provides all calculation formulae.</li> <li>• <i>Parameter consistency:</i> It has been checked whether all internal and external parameters and data used for the calculation are applied consistently in the monitoring report and the calculation spreadsheet.</li> <li>• <i>Correctness:</i> It has been checked whether the applied formulae and methods for calculating baseline emissions are in accordance with the monitoring plan and the approved methodology.</li> <li>• <i>Completeness:</i> It has been checked whether all calculations are complete and without omissions.</li> </ul> <p>The verification team had reviewed the calculations presented and deemed correct.</p>
Findings	<div style="display: flex; align-items: center;"> <input type="checkbox"/> <div style="margin-left: 10px;"> <p>The calculation of the baseline emissions was found to be fully compliant with the above stated principles.</p> <p>The calculations of baseline GHG emissions or baseline net GHG removals have been carried out in accordance with the formulae and methods described in the registered monitoring plan, the applied methodology and, where applicable, the applied standardized baseline. Any assumptions used in emission or removal calculations have been justified. Appropriate emission factors, IPCC default values, GWPs and other reference values have been correctly applied.</p> <p>No errors, miscalculations, omissions, misstatements or incomplete information has been identified.</p> </div> </div>

Conclusion	<input checked="" type="checkbox"/>	The verification team has identified mistakes in the baseline emissions calculation or the underlying calculation approaches.
	<input checked="" type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised: CAR E.8-1, CAR E.8-2, CAR E.8-3, CAR E.8-4, CAR E.8-5, CAR E.8-7,
	<input type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
<p>The calculations of baseline GHG emissions have been carried out in accordance with the equations and methods described in the approved revised monitoring plan and applied methodology.</p> <p>Any assumptions used in emission or removal calculations have been justified. Appropriate emission factor and other reference values have been correctly applied.</p> <p>Where corrections were required a revised ER calculation was prepared by the PPs and presented to the verification team. All raised issues were addressed appropriately so that it can be confirmed that the baseline emissions calculation is overall correct.</p>		

### E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	<p>During the verification, the calculation of project GHG emissions has been checked. In detail the following has been verified:</p> <ul style="list-style-type: none"> <li>• Transparency: It has been checked whether the calculation of project emissions is fully traceable and, where used, the Excel calculation provides all calculation formulae.</li> <li>• Parameter consistency: It has been checked whether all internal and external parameters and data used for the calculation are applied consistently in the monitoring report and the calculation spreadsheet.</li> <li>• Correctness: It has been checked whether the applied formulae and methods for calculating project emissions are in accordance with the monitoring plan and the approved methodology.</li> <li>• Completeness: It has been checked whether all calculations are complete and without omissions.</li> </ul> <p>The project emissions are from the consumption of grid electricity and from fossil fuel use.</p> <p>Electricity meter EL6 records the grid electricity consumed by Flare 2 system, gas engines 1, 2, 3 &amp; 4 auxiliaries, GSS1, GSS2 and GSSF1. The consumption is manually recorded daily and aggregated weekly.</p> <p>Meter EL1 is no longer in use and acts as a standby meter.</p> <p>The usage of diesel by the standby genset is mainly for monthly test runs.</p> <p>The verification team had checked the records during the on-site visit and confirmed the records are correct.</p> <p>The data applied in the ER spreadsheet were cross-checked and verified with the daily records.</p> <p>The project emission is calculated with the below formula:</p> $PE_y = PE_{EC,y} + PE_{FC,j,y} \quad (\text{Revised equation 22 of ACM0001})$ <p>Where:</p> <p><math>PE_{EC,y}</math>: Project emissions from consumption of electricity by project activity during the year</p> <p><math>PE_{FC,j,y}</math>: Project emissions from usage fossil fuel by the standby genset during the year.</p> <p>Therefore, <math>PE_y = 1,104 + 12</math></p> <p>The project emissions for this period is <b>1,116 tCO<sub>2</sub>e</b></p>
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	<p>The verification team had reviewed the calculations presented are considered correct.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /ER1/</li> <li>• /ER7/</li> <li>• /O1/</li> </ul>
<b>Findings</b>	<input type="checkbox"/> <p>The calculation of the project emissions was found to be fully compliant with the above stated principles.</p> <p>The calculations of project GHG emissions or actual net GHG removals have been carried out in accordance with the formulae and methods described in the registered monitoring plan, the applied methodology and, where applicable, the applied standardized baseline. Any assumptions used in emission or removal calculations have been justified. Appropriate emission factors, IPCC default values, GWPs and other reference values have been correctly applied.</p> <p>No errors, miscalculations, omissions, misstatements or incomplete information have been identified.</p>
	<input checked="" type="checkbox"/> <p>The verification team has identified mistakes in the project emissions calculation or the underlying calculation approaches.</p>
	<input checked="" type="checkbox"/> <p>In this context the following CARs, CLs, FARs have been raised:</p>
	<p>CAR E.8-5</p>
<b>Conclusion</b>	<input type="checkbox"/> <p>No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.</p>
	<input checked="" type="checkbox"/> <p>The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p>
	<p>The calculation of project GHG emissions is consider correct after corrections made.</p> <p>The calculations of project GHG emissions have been carried out in accordance with to the equation and methods described in the registered PDD and applied methodology</p>

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

<b>Means of verification</b>	<p>During the verification it has been checked whether leakage emissions have to be considered and in cases where leakage emissions have to be calculated, the respective calculation of leakage GHG emissions has been checked.</p> <p>According to the approved revised PDD, there is no GHG emission caused by leakage emission of the proposed project activity.</p> <p>Therefore, leakage is considered to be zero (<math>LE_y = 0</math>)</p> <p>During the verification it has been checked whether leakage emissions have to be considered and, in cases where leakage emissions have to be calculated, the respective calculation of leakage GHG emissions has been checked. In such cases the same verification principles have been considered as for the baseline and project emissions calculation. Please refer to E.8.1 and E.8.2.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /PDD1/</li> <li>• /ER1/</li> <li>• /ACM1/</li> </ul>
<b>Findings</b>	<input checked="" type="checkbox"/> <p>No leakage emissions were to be considered (<math>LE = 0</math>).</p>

	<input type="checkbox"/>	<p>The calculation of the leakage emissions was found to be fully compliant with the above stated principles (see 8.1 and 8.2).</p> <p>The calculations of leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan, the applied methodology and, where applicable, the applied standardized baseline. Any assumptions used in leakage emissions calculations have been justified. Where applicable, appropriate emission factors, IPCC default values, GWPs and other reference values have been correctly applied.</p> <p>No errors, miscalculations, omissions, misstatements or incomplete information have been identified.</p>
	<input type="checkbox"/>	The verification team has identified mistakes in the project emissions calculation or the underlying calculation approaches.
	<input type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised:
<b>Conclusion</b>	<input checked="" type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	No leakage has to be considered according to the registered PDD since the technology used in this project is neither transferred to nor transferred from another activity.	

#### E.8.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

<b>Means of verification</b>	<p>The verification team has checked if the MR includes a summary table of the emission reductions calculation specifying separately</p> <ul style="list-style-type: none"> <li>- Total baseline emissions,</li> <li>- Total project emissions,</li> <li>- Total leakage,</li> <li>- Total emission reductions.</li> </ul> <p>Section E.4 of MR demonstrate the summary of GHG emission reductions for the monitoring period and calculated according to the applied methodology ACM0001 version 18.0 as follows:</p> $ER = BE_y - PE_y$ $= 172,136 - 1,116$ $= 171,020 \text{ tCO}_2\text{e}$ <p>To be conservative, the total baseline emissions for biogas extracted are rounded down as integer. Project emissions are rounded-up to the next integer.</p>	
<b>Findings</b>	<input checked="" type="checkbox"/>	Section E.4 of the MR includes in a summary table of the emission reductions calculation.
	<input checked="" type="checkbox"/>	The summary table specified the total baseline, project and leakage emissions as well as the total emission reductions separately.
	<input type="checkbox"/>	The values as specified in the ER summary table are correct; no issues have been identified during the verification which requires changes in the ER calculation.
	<input checked="" type="checkbox"/>	During the verification, issues with impact on the ER calculation have been identified.
	<input checked="" type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised: CAR E.8-6
<b>Conclusion</b>	<input type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.



	<p>It can be concluded that the summary table in the MR has been filled correctly and the values are in line with the related emissions reduction spreadsheet</p> <p>The summary table in the MR has been filled correctly and the values are in line with the related emissions reduction spreadsheet after correction.</p>
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#### E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

<b>Means of verification</b>	<p>The verification team has checked if the MR includes a comparison of actual values of the monitoring period with the estimations in the registered PDD.</p> <p>Section E.5 of the MR includes a comparison of the calculated actual emission reductions with the ex-ante calculated values in the approved revised PDD.</p> <p>For this monitoring period from 01/01/2018 to 31/12/2018 (both days included) the project achieved <b>171,020 tCO<sub>2</sub>e</b> of GHG emission reductions.</p> <p>The estimated ex-ante GHG emission reductions in the approved revised / registered PDD for this monitoring period are 269,207 tCO<sub>2</sub>e.</p> <p>Therefore, the actual emission reduction was 36.5% lower than the estimated ex-ante emission reductions.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /PDD1/</li> <li>• /ER/</li> </ul>								
<b>Findings</b>	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>Case 1: The ex-ante estimated value was found to be proportionally higher than the ex-post determined value. No further action is deemed required.</td></tr> <tr> <td><input type="checkbox"/></td><td>Case 2: The ex-ante estimated value fits very good to the actually monitored value. No further justification is deemed required.</td></tr> <tr> <td><input type="checkbox"/></td><td>Case 3: The ex-ante estimated value was found to be proportionally lower than the ex-post determined value.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>In this context the following CARs, CLs, FARs have been raised: CAR E.8-6</td></tr> </table>	<input checked="" type="checkbox"/>	Case 1: The ex-ante estimated value was found to be proportionally higher than the ex-post determined value. No further action is deemed required.	<input type="checkbox"/>	Case 2: The ex-ante estimated value fits very good to the actually monitored value. No further justification is deemed required.	<input type="checkbox"/>	Case 3: The ex-ante estimated value was found to be proportionally lower than the ex-post determined value.	<input checked="" type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised: CAR E.8-6
<input checked="" type="checkbox"/>	Case 1: The ex-ante estimated value was found to be proportionally higher than the ex-post determined value. No further action is deemed required.								
<input type="checkbox"/>	Case 2: The ex-ante estimated value fits very good to the actually monitored value. No further justification is deemed required.								
<input type="checkbox"/>	Case 3: The ex-ante estimated value was found to be proportionally lower than the ex-post determined value.								
<input checked="" type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised: CAR E.8-6								
<b>Conclusion</b>	<table border="1"> <tr> <td><input type="checkbox"/></td><td>No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</td></tr> </table> <p>The ex-ante estimated value was found to be proportionally higher than the ex-post determined value. No further action is deemed required.</p>	<input type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.	<input checked="" type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.				
<input type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.								
<input checked="" type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.								

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

<b>Means of verification</b>	<p>Section E.5 of the MR includes a comparison of the actual emissions reduction with the ex-ante calculated values in the approved revised PDD as below.</p> <p>Ex-ante ERs: 269,207 tCO<sub>2</sub>e for 365 days</p> <p>Ex-post ERs: 171,020 tCO<sub>2</sub>e for 365 days</p> <p>Difference: 98,187 tCO<sub>2</sub>e</p> <p>The comparison is based on 365 days of the monitoring period.</p> <p>Section E.6 of the MR includes the justification for the ex-post ERs are lower than the ex-ante ERs by 36.5%.</p>						
<b>Findings</b>	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>No further justification or explanation is deemed required as actual emissions of this MP do not exceed significantly the ex-ante calculated emission reductions (applicable for case 1 and 2).</td></tr> <tr> <td><input type="checkbox"/></td><td>For case 3: The PP has provided a related justification in the MR. The reasons for the increase are as follows:</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>In this context the following CARs, CLs, FARs have been raised: CAR E.8-6</td></tr> </table>	<input checked="" type="checkbox"/>	No further justification or explanation is deemed required as actual emissions of this MP do not exceed significantly the ex-ante calculated emission reductions (applicable for case 1 and 2).	<input type="checkbox"/>	For case 3: The PP has provided a related justification in the MR. The reasons for the increase are as follows:	<input checked="" type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised: CAR E.8-6
<input checked="" type="checkbox"/>	No further justification or explanation is deemed required as actual emissions of this MP do not exceed significantly the ex-ante calculated emission reductions (applicable for case 1 and 2).						
<input type="checkbox"/>	For case 3: The PP has provided a related justification in the MR. The reasons for the increase are as follows:						
<input checked="" type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised: CAR E.8-6						

<b>Conclusion</b>	<input type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	The PP has demonstrated the reasons for lower CERs in section E.6 of MR. It could be confirmed the justification for the lower CERs is reasonable after corrections.	

#### E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	The verification team has checked chapter E.4 of the MR and the emission reduction calculation sheet. <sup>/ER1/</sup>			
Findings	<input checked="" type="checkbox"/>	The MR in section E.4 includes a summary table of the ER breakdown a) ER before 01/01/2013 and b) ER from 01/01/2013 onwards		
	<input checked="" type="checkbox"/>	The breakdown of the ERs before 01/01/2013 (during the first commitment period) and from 01/01/2013 onwards is as follows:		
	<input type="checkbox"/>	The ER have completely been generated before 01/01/2013 (during the first commitment period)		
	<input checked="" type="checkbox"/>	The ERs have completely been generated from 01/01/2013 onwards,		
	<input type="checkbox"/>	The ERs have partly been generated before 01/01/2013 (during the first commitment period) and partly from 01/01/2013 onwards.		
	<input checked="" type="checkbox"/>	The breakdown of the ERs is correct, considering the applicable guidance.		

#### E.9. Assessment of reported sustainable development co-benefits

<b>Means of verification</b>	<input checked="" type="checkbox"/>	N/A – as the PP has not monitored the sustainable development co-benefits of the registered CDM project activity or not requested the DOE to verify them.
	<input type="checkbox"/>	<p>The project participants have monitored the sustainable development co-benefits of the registered CDM project activity, and requested the DOE to verify them.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /PDD/</li> <li>• /DSD/</li> <li>• /unfccc/</li> </ul>
<b>Findings</b>	<input checked="" type="checkbox"/>	N/A – as the PP has not monitored the sustainable development co-benefits of the registered CDM project activity or not requested the DOE to verify them.
	<input type="checkbox"/>	Therefore, the DOE has assessed and confirms that:

		(a) The monitoring has been carried out in accordance with the document for monitoring sustainable development co-benefits, if such document was developed and published on the UNFCCC CDM website in accordance with the “CDM project standard for project activities”; (b) The reported monitoring results correspond to the sustainable development co-benefits of the project activity as observed by the DOE.
	<input type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised:
<b>Conclusion</b>	<input type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	<input checked="" type="checkbox"/>	N/A – as the PP has not monitored the sustainable development co-benefits of the registered CDM project activity or not requested the DOE to verify them.

**E.10. Global stakeholder consultation**

<b>Means of verification</b>	<p>In accordance with the PCP the DOE has submitted the initial version of the monitoring report provided by the PP for this monitoring period to be published on the UNFCCC webpage.</p> <p>The monitoring report has been published for the period 04/03/2019 to 02/04/2019 (Date of onsite)</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /MR/</li> <li>• /unfccc/</li> </ul>	
<b>Findings</b>	<input checked="" type="checkbox"/>	No comments have been received on the published monitoring report for this monitoring period.
	<input type="checkbox"/>	Comments have been received and the DOE has concluded that comments are related to issues outside the CDM rules and requirements. Please refer to the list provided under Conclusion of this Section below for related information.
	<input type="checkbox"/>	<p>Comments have been received.</p> <p>The DOE has</p> <ul style="list-style-type: none"> <li>- requested further information from the submitters of the comments</li> <li>- informed the project participants of the comments received, and requested their feedback within a specified timeframe,</li> <li>- considered the input received and has assessed whether such comments are relevant to the CDM project activity,</li> <li>- acknowledged receipt of all submitted comments on the MR of the proposed CDM project activity,</li> <li>- assessed whether the comments are related to the CDM rules and requirements (if so related findings have been raised as per below),</li> <li>- used all possible means to determine the authenticity of the name and contact details of the individual or organization on whose behalf the comments have been submitted,</li> <li>- contacted the secretariat to make them publicly available (if only addressed to the DOE),</li> <li>- determined whether authentic and relevant comments in the global stakeholder consultation were taken into due account in the PDD of the proposed CDM project activity.</li> </ul>
	<input type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised, i.e. as the DOE concludes that the comments are related to the CDM rules and requirements:

<b>Conclusion</b>	<input checked="" type="checkbox"/>	No CARs / CLs / FARs have been raised in this context. No correction was required. The project is in line with the respective requirements.			
	<input type="checkbox"/>	The raised CARs / CLs / FARs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.			
	As the DOE has concluded that comments are related to issues outside the CDM rules and requirements the comments and information gathered are listed as follows:				
		<b>Nbr.</b>	<b>Original comment received</b>	<b>Feedback by the PP</b>	<b>Statement by DOE</b>
		1			
		2			

## SECTION F. Internal quality control

Before the submission of the final verification report a technical review of the whole verification procedure was carried out. The technical reviewers are competent GHG auditors being appointed for the scope this project falls under. The technical reviewers are not considered to be part of the verification team and thus not involved in the decision making process up to the technical review.

As a result of the technical review process the verification opinion and the topic specific assessments as prepared by the verification team leader may have been confirmed or revised. Furthermore, reporting improvements might have been achieved.

After the successful technical review, an overall (esp. procedural) assessment of the complete verification has been carried out by a senior assessor located in the accredited premises of TÜV NORD CERT GmbH.

After this step the submission for requesting for issuance is conducted.

**SECTION G. Verification opinion**

KUB-Berjaya Enviro Sdn. Bhd. (KBE) has commissioned the TÜV NORD JI/CDM Certification Program to carry out the 2<sup>nd</sup> (MPII) periodic verification of the project: **“Landfill Gas Recovery and Utilization at Bukit Tagar Sanitary Landfill, Hulu Selangor in Malaysia”**, with regard to the relevant requirements for CDM project activities. The project reduces GHG emissions due to using landfill gas to generate renewable energy. This verification covers the period from 01/01/2018 to 31/12/2018 (including both days).

As a result of this verification, the verifier confirms that:

- all operations of the project are implemented and installed as planned and described in the validated project design document.
- the monitoring plan is in accordance with the applied approved CDM methodology, i.e., ACM0001 ver. 18.0.
- the installed equipment essential for measuring parameters required for calculating emission reductions are calibrated appropriately.
- the monitoring system is in place and functional. The project has generated GHG emission reductions.

As the result of the 2<sup>nd</sup> (MPII) periodic verification, the verifier can confirm that the GHG emission reductions are calculated without material misstatements in a conservative and appropriate manner. TÜV NORD JI/CDM CP herewith confirms that the project has achieved emission reductions in the above mentioned reporting period as follows:

Emission reductions: **171,020 tCO<sub>2</sub>e**

**SECTION H. Certification statement**

As a duly accredited DOE, TÜV NORD CERT confirms that the project

**“Landfill Gas Recovery and Utilization at Bukit Tagar Sanitary Landfill, Hulu Selangor in Malaysia”**

registered under

UNFCCC-No.: 2467

has achieved emission reductions in accordance with all applicable requirements for registered CDM project activities during the current monitoring period

MP-No.: 2

from: 01/01/2018

to: 31/12/2018

(including both days) as follows:

Emission reductions: **171,020 tCO<sub>2</sub>e**

Puchong, 14/05/2019




Cheong, Chun Yuen (Robert)  
TÜV NORD JI/CDM CP  
Verification Team Leader

## Appendix 1. Abbreviations

Abbreviations	Full texts
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CO <sub>2</sub>	Carbon dioxide
CO <sub>2eq</sub>	Carbon dioxide equivalent
CL	Clarification Request
CPII	Crediting Period II
DOE	Designated Operating Entity
DVerR	Draft Verification Report
ER	Emission Reduction
EVN	Electricity Vietnam
FAR	Forward Action Request
GHG	Greenhouse gas(es)
IM	Interview Memo
IPCC	Intergovernmental Panel on Climate Change
MOIT	Ministry of Industry and Trade
MONRE	Ministry of Natural Resources and Environment
MOSTE	Ministry of Scientific, Technology and Environment of Viet Nam
MP	Monitoring Plan
MR	Monitoring Report
PA	Project Activity
PDD	Project Design Document
PP	Project Participant
PRC	Post Registration Changes
QA/QC	Quality Assurance / Quality Control
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

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



**Statement of Competence**  
Appointment and authorization according to the procedures  
of the TUV NORD J/CDM Certification Program

**Mr. David Lubanga**

SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification)	2018-10-29
VCS / ISO 14064.2	Lead Assessor	2018-10-29


Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
3.1	Energy demand

251 - Rev. 4, Date: 2015-10-21

251\_251-VAB6F20\_2015-10-21\_ger.doc

251-VAB6F20 rev3 / 2015-10-21



**Statement of Competence**  
Appointment and authorization according to the procedures  
of the TUV NORD J/CDM Certification Program

**Mr. Robert Cheong**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2021-04-01
VCS	Senior Assessor	2021-04-01

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
3.1	Energy demand
13.1	Solid waste and wastewater
13.2	Manure

128 - Rev. 9, Date: 2018-03-19

128\_251-VAB6F20\_2018-03-19\_rev9.doc

251-VAB6F20 rev3 / 2012-10-25

## Appendix 3. Documents reviewed or referenced

No.	Author	Reference	Title	References to the document	Provider
1	UNFCCC	<b>/ACM1/</b>	ACM0001: "Flaring or use of landfill gas" version 18.0	<a href="http://cdm.unfccc.int/methodologies/index.html">http://cdm.unfccc.int/methodologies/index.html</a>	Other
2	DOE	<b>/CPM/</b>	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)		Other
3	UNFCCC	<b>/EB69/</b>	EB 69 Meeting Report §66	<a href="http://cdm.unfccc.int/EB/index.html">http://cdm.unfccc.int/EB/index.html</a>	Other
4	UNFCCC	<b>/GT/</b>	Glossary "CDM terms" (version 09.1)	<a href="https://cdm.unfccc.int/filestorage/ex/t/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fDCW9A3vJwR03kQQh4sbLiYu">https://cdm.unfccc.int/filestorage/ex/t/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fDCW9A3vJwR03kQQh4sbLiYu</a>	Other
5	IPCC	<b>/IPCC/</b>	1. 1996 IPCC Guidelines for National Greenhouse Gas Inventories: work book 2. 2006 IPCC Guidelines for National Greenhouse Gas Inventories: work book	<a href="http://www.ipcc-nggip.iges.or.jp">www.ipcc-nggip.iges.or.jp</a>	Other
6	UNFCCC	<b>/KPI/</b>	Kyoto Protocol (1997)	<a href="http://unfccc.int/kyoto_protocol/items/2830.php">http://unfccc.int/kyoto_protocol/items/2830.php</a>	Other
7	UNFCCC	<b>/MA/</b>	Decision 3/CMP. 1 (Marrakesh – Accords)	<a href="http://cdm.unfccc.int/Reference/COPMOP/index.html">http://cdm.unfccc.int/Reference/COPMOP/index.html</a>	Other
8	UNFCCC	<b>/MRT/</b>	Monitoring Report Form (CDM-MR-FORM), Version 6.0	<a href="https://cdm.unfccc.int/Reference/PDDs_Forms/index.html">https://cdm.unfccc.int/Reference/PDDs_Forms/index.html</a>	Other
9	UNFCCC	<b>/PDD1/</b>	Project Design Document for CDM project: "Landfill Gas Recovery and Utilization at Bukit Tagar Sanitary Landfill, Hulu Selangor in Malaysia" version 20.5 dated 26/03/2018	<a href="http://cdm.unfccc.int/Projects/DB/DNV-CUK1238680609.1/view">http://cdm.unfccc.int/Projects/DB/DNV-CUK1238680609.1/view</a>	Other
10	UNFCCC	<b>/PS/</b>	CDM Project Standard (Version 02.0)	<a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Other
11	UNFCCC	<b>/ESW/</b>	Emissions from solid waste disposal sites" Version 07.0	<a href="http://cdm.unfccc.int/DNA/Reference/tools/index.html">http://cdm.unfccc.int/DNA/Reference/tools/index.html</a>	Other
12	UNFCCC	<b>/PEF/</b>	Project emissions from flaring version 2.0.0	<a href="http://cdm.unfccc.int/DNA/Reference/tools/index.html">http://cdm.unfccc.int/DNA/Reference/tools/index.html</a>	Other



No.	Author	Reference	Title	References to the document	Provider
13	UNFCCC	<b>/TPL/</b>	Tool to calculate project or leakage CO <sub>2</sub> emissions from fossil fuel combustion" Version 02.0.0	<a href="http://cdm.unfccc.int/DNA/Reference/tools/index.html">http://cdm.unfccc.int/DNA/Reference/tools/index.html</a>	Other
14	UNFCCC	<b>/PLEC/</b>	Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation" Version 02.0.0	<a href="http://cdm.unfccc.int/DNA/Reference/tools/index.html">http://cdm.unfccc.int/DNA/Reference/tools/index.html</a>	Other
15	UNFCCC	<b>/TMF/</b>	Tool to determine the mass flow of a greenhouse gas in a gaseous stream Version 3.0.0	<a href="http://cdm.unfccc.int/DNA/Reference/tools/index.html">http://cdm.unfccc.int/DNA/Reference/tools/index.html</a>	Other
16	DOE	<b>/VAL/</b>	Validation Report for CDM project "Landfill Gas Recovery and Utilization at Bukit Tagar Sanitary Landfill, Hulu Selangor in Malaysia" revision 02.2, dated 26/03/2018	<a href="http://cdm.unfccc.int/Projects/DB/DNV-CUK1238680609.1/view">http://cdm.unfccc.int/Projects/DB/DNV-CUK1238680609.1/view</a>	Other
17	UNFCCC	<b>/VVS/</b>	CDM Validation and Verification Standard (Version 02.0)	<a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Other
18	UNFCCC	<b>/GOT/</b>	Glossary "CDM terms" (version 09.1)	<a href="https://cdm.unfccc.int/filestorage/extra/t/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fDCW9A3vJwR03kQQh4sbLiYu">https://cdm.unfccc.int/filestorage/extra/t/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fDCW9A3vJwR03kQQh4sbLiYu</a>	Other
19	PP	<b>/MR/</b>	Monitoring Report version 1.1 dated 28/02/2019 Monitoring Report version 1.2 dated 25/04/2019 Monitoring Report version 1.3 dated 09/05/2019		PP
20	PP	<b>/ER1/</b>	ER spreadsheet version 1.0 dated 28/02/2019 ER spreadsheet version 1.2 dated 29/04/2019 ER spreadsheet version 1.3 dated 13/05/2019		PP
21	PP	<b>/ER2/</b>	Flare No.2 Excel Sheet for calculating the effect of the overdue calibration of TT3 to the raw data usage for the affected period		PP
22	PP	<b>/ER3/</b>	F2TT1 – Flare No.2 Excel Sheet for calculating the new FT2 value for LFG temperature (TT1) more than 60°C for monitoring period from 01/01/2018 to 31/12/2018		PP
23	PP	<b>/ER4/</b>	<ul style="list-style-type: none"> <li>Flare No.2 Excel Sheet for calculating the effect of the overdue calibration of TT1 to the</li> </ul>		PP

No.	Author	Reference	Title	References to the document	Provider
			<p>normalised flow for the affected period</p> <ul style="list-style-type: none"> <li>Flare No.2 Excel Sheet for calculating the effect of the overdue calibration of PT2 to the normalised flow for the affected period</li> </ul>		
24	PP	<b>/ER5/</b>	<ul style="list-style-type: none"> <li>GSS1 Excel Sheet for calculating the effect of the overdue calibration of TT1 to the normalised flow for the affected period</li> <li>GSS1 Excel Sheet for calculating the effect of the overdue calibration of PT2 to the normalised flow for the affected period</li> <li>GSS2 Excel Sheet for calculating the effect of the overdue calibration of TT1 to the normalised flow for the affected period</li> <li>GSS2 Excel Sheet for calculating the effect of the overdue calibration of PT2 to the normalised flow for the affected period</li> <li>GSSF1 Excel Sheet for calculating the effect of the overdue calibration of TT1 to the normalised flow for the affected period</li> <li>GSSF1 Excel Sheet for calculating the effect of the overdue calibration of PT2 to the normalised flow for the affected period</li> </ul>		PP
25	PP	<b>/ER6/</b>	Total Running Time for Flare No.2		PP
26	PP /TNB	<b>/ER7/</b>	<p>Electricity Joint Meter Readings from 01/01/2018 – 30/09/2018 for GE1, GE2 &amp; GE3, and GE4</p> <p>TNB Bill for 01/10/2018 for GE1, GE2 &amp; GE3, and GE4</p> <p>TNB Bill from 01/11/2018 – 31/12/2018 for GE1, GE2 &amp; GE3</p>		PP / Other
27	TNB	<b>/ER8/</b>	Average Operating Time of Gas Engine No.1, No.2, No.3 and No.4		Other
28	PP	<b>/ER9/</b>	GSSTT1 – GSS1 Excel Sheet for calculating the new FT3 value for LFG temperature (TT) more than 60°C for monitoring period from 01/01/2018 – 31/12/2018		PP
29	PP	<b>/ER10/</b>	GSSTT1 – GSS2 Excel Sheet for calculating the new FT3 value for LFG temperature (TT) more than 60°C for monitoring period from 01/01/2018 – 31/12/2018		PP

No.	Author	Reference	Title	References to the document	Provider
30	PP	/ER11/	GSSTT2 – GSSF1 Excel Sheet for calculating the new FT3 value for LFG temperature (TT) more than 60°C for monitoring period from 01/01/2018 – 31/12/2018		PP
31	PP	/ER12/	CH4 & FT2 95% Confidence Interval		PP
<b>Calibration Certificates for Flare No.2</b>					
32	CT Services	/CF11/	Tt - T <sub>TT1,F2</sub> , (Flare 2) Temperature Transmitter Honeywell S/N: B839917437 calibration by CT Services. Calibration details refer to Appendix 6		Other
33	CT Services	/CF12/	TEG <sub>m</sub> – Flare 2 Temperature Transmitter Honeywell S/N: B838901937 calibration by CT Services. Calibration details refer to Appendix 6		Other
34	CT Services	/CF13/	Pt - P <sub>PT2,F2</sub> (Flare 2) Pressure Transmitter Rosemount S/N: 5584784 calibration by CT Services. Calibration details refer to Appendix 6		Other
35	CT Services	/CF14/	V <sub>t,wb</sub> FT1 Flare No.2 (FT141) Total Flow Transmitter Rosemount S/N: 5476626 calibration by CT Services. Calibration details refer to Appendix 6  V <sub>t,wb</sub> FT1 Flare No.2 (FT141) Total Flow Transmitter Rosemount S/N: 4972946 calibration by CT Services. Calibration details refer to Appendix 6		Other
36	CT Services	/CF15/	V <sub>t,wb</sub> – FT2 – FT140 (Flare 2) Flow Transmitter Rosemount S/N: 5476627 calibration by CT Services Calibration details refer to Appendix 6		Other
37	CT Services	/CF16/	V <sub>CH4,m,db</sub> – Flare 2 CH <sub>4</sub> Gas Analyser (Guardian) S/N: 31453, calibration by CT Services. Calibration details refer to Appendix 6		Other
38	Air Products	/CF17/	Span Gas (Nitrogen and Methane) dated: 04/10/2010 valid until 10/04/2020  Span Gas (Nitrogen and Carbon Dioxide) dated: 04/10/2010 valid until 10/04/2020  Span Gas (Nitrogen and Oxygen) dated: 04/10/2010 valid until 10/04/2020		Other
<b>Calibration Certificates for Gas Engine 1:</b>					
39	CT Services	/CF21/	Tt - T <sub>TT1,GSS1</sub> (GE2 & 3) Temperature PR Electronics S/N: 100944768 calibration by CT Services.		Other

No.	Author	Reference	Title	References to the document	Provider
			Calibration details refer to Appendix 6		
40	CT Services	<b>/CF22/</b>	Pt - P <sub>PT2,GSS1</sub> (GE 2 & 3) Pressure Transmitter Rosemount S/N: 02492864 calibration by CT Services. Calibration details refer to Appendix 6		Other
41	CT Services	<b>/CF23/</b>	V <sub>t,wb</sub> – FT3 (GSS1 – GE2 & 3) Flow Transmitter KVS S/N: 02768007, calibration by CT Services. Calibration details refer to Appendix 6		Other
42	CT Services	<b>/CF24/</b>	V <sub>CH4,m,db</sub> – GSS1 CH <sub>4</sub> Gas Analyser (Guardian Plus) S/N: 33436 calibration by CT Services. Calibration details refer to Appendix 6		Other
43	RA Power	<b>/CF25/</b>	EG <sub>PJ,y</sub> : EL4 (Flare 2 generation) Power Meter (EDMI Limited) total electricity generated by gas engine no. 1 S/N: 210225256, calibration by RA Power System Protection. Calibration details refer to Appendix 6		
44	CT Services	<b>/CF26/</b>	Gas Detector GA5000 CH <sub>4</sub> S/N: BM12749 calibration by Enviroequip Sales& Rentals (M) Sdn. Calibration details refer to Appendix 6.  Gas Detector GA5000 CH <sub>4</sub> S/N: G505823 calibration by QED Environmental System Ltd. Calibration details refer to Appendix 6		
<b>Calibration Certificates for Gas Engines No.2 and No.3</b>					
45	CT Services	<b>/CF31/</b>	Tt - T <sub>TT1,GSS1</sub> (GE2 & 3) Temperature Transmitter Honeywell S/N: b527143837 calibration by CT Services. Calibration details refer to Appendix 6		Other
46	CT Services	<b>/CF32/</b>	Pt - P <sub>PT2,GSS1</sub> (GE 2 & 3) Pressure Transmitter Rosemount S/N: 5916057 calibration by CT Services. Calibration details refer to Appendix 6		Other
47	CT Services	<b>/CF33/</b>	V <sub>t,wb</sub> – FT3 (GSS1 – GE2 & 3) Flow Transmitter KVS S/N: 05988022, calibration by CT Services. Calibration details refer to Appendix 6		Other
48	CT Services	<b>/CF34/</b>	V <sub>CH4,m,db</sub> – GSS1 CH <sub>4</sub> Gas Analyser (Edinburgh Guardian Ng) S/N: 8154, calibration by One Gasmaster Sdn Bhd		Other

No.	Author	Reference	Title	References to the document	Provider
			GSS1 CH <sub>4</sub> Gas Analyser (Guardian Plus) S/N: 34140 calibration by CT Services. Calibration details refer to Appendix 6  GSS1 CH <sub>4</sub> Gas Analyser (Edinburgh Guardian Ng) S/N: 14464 calibration by CT Services. Calibration details refer to Appendix 6		
49	IME	<b>/CF35/</b>	EG <sub>EC,y</sub> : EL6 Import Power Meter (IME) S/N: 2661930098 calibration by IME. Calibration details refer to Appendix 6		Other
50	Mirastech & RA System	<b>/CF36/</b>	EG <sub>PJ,y</sub> : EL9 – GSS1 GE2 generation Power Meter (EDMI Limited) S/N: 211516862 calibration by Mirastech on 08/04/2013 and by RA Power System on 13/05/2015		Other
51	Mirastech & RA System	<b>/CF37/</b>	EG <sub>PJ,y</sub> : EL10 – GSS1 generation GE2 Power Meter (EDMI Limited) S/N: 211516863 calibration by Mirastech and by RA Power System. Calibration details refer to Appendix 6		Other
52	TNB	<b>/CF38/</b>	EG <sub>PJ,y</sub> : EL11 – GSS1 Main Meter to grid (EDMI Limited) S/N: 908705152 calibration by TNB dated 06/12/2009 valid for 5 years  Power Meter – EL11 check meter (EDMI Limited) S/N: 908705154 calibration by TNB dated 06/12/2009 valid for 5 years  Calibration details refer to Appendix 6		Other
<b>Calibration Certificates for Gas Engine No. 4</b>					
53	CT Services	<b>/CF41/</b>	Tt - T <sub>TT1,GSS2</sub> (GE4) Temperature Transmitter Autrol S/N: 4151000 calibration by CT Services. Calibration details refer to Appendix 6		Other
54	CT Services	<b>/CF42/</b>	Pt - P <sub>PT2,GSS2</sub> (GE4) Pressure Transmitter Autrol S/N: APT3200-4150998 calibration by CT services. Calibration details refer to Appendix 6		Other
55	Binder	<b>/CF43/</b>	V <sub>t,wb</sub> – FT3 (GSS2 – GE4) Flow Transmitter Combimass S/N: C150327 calibration by Binder. Calibration details refer to Appendix 6		Other
56	One Gasmaster CT Services	<b>/CF44/</b>	V <sub>CH4,m,db</sub> – GSS2 CH <sub>4</sub> Gas Analyser (Guardian NG) S/N: 8154 and 33542 calibration by One Gasmaster and CT Services. Calibration details refer to Appendix 6		Other

No.	Author	Reference	Title	References to the document	Provider
57	RA System	<b>/CF45/</b>	EGPJ.y: EL12 – GSS2 Generation Power Meter (EDMI Limited) S/N: 213545834 calibration by RA Power System. Calibration details refer to Appendix 6		Other
58	TNB	<b>/CF46/</b>	EGPJ.y: EL13 – GSS2 Main Meter to grid Power Meter (Itron) S/N: 81480576 calibration by TNB dated 14/06/2016 valid for 5 years  Power Meter EL13 GSS 2 check meter to grid (Itron) S/N: 81480578 calibration by TNB dated 14/06/2016 valid for 5 years  Calibration details refer to Appendix 6		Other
<b>Daily Manual Log Sheet</b>					
59	PP	<b>/DML2/</b>	Daily Monitoring Log Sheet for Flare No. 2 from 01/01/2018 to 31/12/2018		PP
60	PP	<b>/DML3/</b>	Daily Monitoring Log Sheet for Gas Engines No. 1, No. 2 and No. 3 (power meter readings) from 01/01/2018 to 31/12/2018		PP
61	PP	<b>/DML4/</b>	Daily Monitoring Log Sheet for Gas Engines No. 2 and No. 3 (flow meter readings) from 01/01/2018 to 31/12/2018		PP
62	PP	<b>/DML5/</b>	Daily Monitoring Log Sheet for Gas Engine No. 4 (flow meter readings) from 01/01/2018 to 31/12/2018		PP
63	PP	<b>/DML6/</b>	Daily Monitoring Log Sheet for GSSF1 (flow meter readings) from 01/01/2018 to 31/12/2018		
<b>Internal Audit</b>					
64	PP	<b>/IAR1/</b>	<ul style="list-style-type: none"> <li>CDM Audit Report for monitoring period from 01/01/2018 to 31/12/2018 conducted on 06/03/2019</li> <li>CDM Audit Attendance List dated</li> </ul>		PP
<b>Maintenance &amp; Service Programme &amp; Records</b>					
65	PP	<b>/MS1/</b>	Yearly Maintenance and Operation Record for Flare No.2, GE1, GE2, GE3 & GE4 for monitoring period from 01/01/2018 to 31/12/2018		PP
66	PP	<b>/MS2/</b>	Service and Maintenance Record for LFG for monitoring period 01/01/2018 to 31/12/2018		PP
67	PP	<b>/MS3/</b>	Service and Maintenance Record for monitoring period from 01/01/2018 to 31/12/2018 Gas Engine No.1		PP
68	PP	<b>/MS4/</b>	Service and Maintenance Record for Gas Engine No.2 and No.3 for		PP

No.	Author	Reference	Title	References to the document	Provider
			monitoring period from 01/01/2018 to 31/12/2018		
69	PP	<b>/MS5/</b>	Service and Maintenance Record for Gas Engine No.4 for monitoring period from 01/01/2018 to 31/12/2018		PP
<b>Management Meeting Records</b>					
70	PP	<b>/MMR1/</b>	CDM Management Meeting No.17 Minutes of Meeting dated 23/10/2018		PP
	<b>QA/QC Manual</b>				
71	PP	<b>/MM1/</b>	Monitoring Manual version 6.0 dated 17/08/2017		PP
<b>Shutdown and Downtime Records</b>					
72	PP	<b>/SDR1/</b>	Flare 2 system from 01/01/2018 to 31/12/2018		PP
73	PP	<b>/SDR2/</b>	Gas Engine No. 1 from 01/01/2018 to 31/12/2018		PP
74	PP	<b>/SDR3/</b>	Gas Engine No. 2 from 01/01/2018 to 31/12/2018		PP
75	PP	<b>/SDR4/</b>	Gas Engine No.3 from 01/01/2018 to 31/12/2018		PP
76	PP	<b>/SDR5/</b>	Gas Engine No. 4 from 01/01/2018 to 31/12/2018		PP
<b>Training Records</b>					
77	PP	<b>/T1/</b>	Training Record Attendance for year 2016		PP
<b>Raw Data</b>					
78	PP	<b>/FRD2/</b>	Flare No.2 LFG raw data for monitoring period from 01/01/2018 to 31/12/2018, inclusive of PLC data for the following dates		PP
79	PP	<b>/GSS1RD/</b>	Gas Engines No.2 and No.3 raw data for monitoring period from 01/01/2018 to 31/12/2018 inclusive of PLC data.		PP
80	PP	<b>/GSS2RD/</b>	Gas Engine No.4 LFG raw data for monitoring period from 01/01/2018 to 31/12/2018		PP
81	PP	<b>GSSF1RD</b>	Gas Engine 1 LFG raw data for monitoring period from 01/01/2018 to 31/12/2018		PP
<b>Others</b>					
82	PP	<b>/O1/</b>	Monthly Tests and fuel records		PP
83	PP	<b>/O2</b>	Environmental Monitoring Report (June – Aug 18)		PP
84	PP	<b>/O3/</b>	CO <sub>2</sub> Manual Recording for Flare 2 Average CO <sub>2</sub> and CI 95% calculation		PP
85	PP	<b>/O4/</b>	Average O <sub>2</sub> for Flare 2		PP
86	PP	<b>/O5/</b>	Service Record for CH <sub>4</sub> Analyser Guardian Plus S/N: 334362017		PP

No.	Author	Reference	Title	References to the document	Provider
87	TNB	/O6/	Malaysian Grid Code (pg 419) dated 02/08/2010		PP
<b>Equipment &amp; Instruments</b>					
88	PP	/E1/	Biogas Genset Technical Data from MWM undated Biogas Genset Technical Data for MTU undated		PP
89	PP	/E2/	Enclosed Biogas Flaring System Technical Specifications by Beijing Fairyland Environmental Technology Co. Ltd.		PP
90	PP	/E4/	Flare 2 instruments specifications dated 30/10/2010		PP
91	PP	/E5/	Flow Meter V-Cone specifications undated (FT1, FT2 and FT3) COMBIMASS Binder Flowmeter Transmitter for GSS2 FT3		PP
92	PP	/E6/	Guardian Plus Gas Analyser Specification undated Guardian NG Gas Analyser Specification undated		PP
93	PP	/E7/	PR Electronics Specifications for TT1 & TT3 Honeywell Temperature Transmitter Specifications issue 8 – 9/07 for TT3 Autrol Temperature Transmitter - ATT2100 for TT1		PP
94	PP	/E8/	Autrol Pressure Transmitter - APT3200		PP
95	PP	/E9/	EL1 meters information		PP
96	PP	/E10/	EL4 meter information		PP
97	PP	/E11/	Total Engine Management System		PP
98	TNB	/E12/	TNB Meters (EL5) Details and Calibration Labels		PP
99	PP	/E13/	General Certificate (accuracy documentation) for flow meter FT1 (Rosemount), pressure meter PT2 (Rosemount), temperature transmitter TT1 (Honeywell) and methane analyser CH4 (Guardian Plus) GSS		PP
100	PP	/E14/	Technical specifications for power meters EL6 (IME) Calibration frequency documentation for power meters EL6 (IME)		PP
101	PP	/E15/	Technical specifications for power meters EL9 – EL12 (EDMI Limited)		PP



No.	Author	Reference	Title	References to the document	Provider
			Calibration frequency documentation for power meters EL9 – EL12 (EDMI Limited)		
102	PP	/E16/	References of equipment power for engine 2 & 3, 4, GSS1 and GSS2 for electricity consumption		PP
103	PP	/E17/	Diesel Gen-set Specification		PP
104	PP	/E18/	Diesel Fuel Gauge		PP
105	PP	/E19/	Technical specifications for Geotech portable gas analyser (GA5000)		PP
106		/dnaMY/	<a href="http://www.nre.gov.my/English/Profile/DivisionInformation/Pages/Environmental%20Management%20and%20Climate%20Change.aspx">http://www.nre.gov.my/English/Profile/DivisionInformation/Pages/Environmental%20Management%20and%20Climate%20Change.aspx</a>	DNA Malaysia	
107		/unfccc/	<a href="http://cdm.unfccc.int">http://cdm.unfccc.int</a>	UNFCCC	
108		/ipcc/	<a href="http://www.ipcc-nggip.iges.or.jp">www.ipcc-nggip.iges.or.jp</a>	IPCC publications	

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

Table 3. Remaining FAR from validation and/or previous verifications

<b>FAR ID</b>	<b>xx</b>	<b>Section no.</b>	<b>E.2</b>	<b>Date: DD/MM/YYYY</b>
<b>Description of FAR</b>				
NA				
<b>Project participant response</b>				<b>Date: DD/MM/YYYY</b>
<b>Documentation provided by project participant</b>				
<b>DOE assessment</b>				<b>Date: DD/MM/YYYY</b>

Table 4: CL from this verification:

<b>CL ID</b>		<b>Section no.</b>		<b>Date:</b>	DD/MM/YYYY
<b>Description of CL</b>					
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>					
<input type="checkbox"/>	Changes in the PDD	Section(s):	New version No.:		
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:		
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:		
<input type="checkbox"/>	Other:				
<b>DOE assessment (1<sup>st</sup> round)</b>					<b>Date:</b> DD/MM/YYYY
<b>Conclusion</b> Tick the appropriate checkbox					
<input checked="" type="checkbox"/> Additional action should be taken (finding remains open) <input type="checkbox"/> The finding is closed					

Table 4. CAR from this verification

<b>CAR ID</b>	CAR E.3-1	<b>Section no.</b>	B.1	<b>Date:</b>	03/04/2019
<b>Description of CAR</b>					
MR version 1.1, Section B.1:					
<ol style="list-style-type: none"> <li>1. Flare 1 is no longer in operation and the description should be deleted.</li> <li>2. The sentence above the Flare 2 specification refers to flare 1.</li> <li>3. Figure 7 should be corrected as 1 flare is no longer in operation.</li> <li>4. Flare 1 is no longer in operation and should be deleted from Figure 8.</li> <li>5. The paragraph below the sub-heading as Extraction System in Phase 1 and 2 Cells and Flare No.2 does not reflect the current situation</li> <li>6. The paragraph below sub-heading Power Generation could be improved to reflect current situation</li> </ol>					
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date:</b> 04/04/2019
MR version 1.2, Section B.1:					
<ol style="list-style-type: none"> <li>1. Description for Flare 1 is removed from revised MR.</li> <li>2. The sentence above the Flare 2 specification which is relevant to Flare 1 is removed from revised MR.</li> <li>3. Flare 1 is deleted from Figure 7.</li> <li>4. Figure 8 is deleted in revised MR.</li> <li>5. Paragraph below the sub-heading is revised accordingly, all the description relevant to Flare 1 is removed from revised MR.</li> <li>6. All the information relevant to Flare 1 is removed from the paragraph</li> </ol>					
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>					
<input type="checkbox"/> Changes in the PDD		Section(s):		New version No.:	
<input checked="" type="checkbox"/> Changes in MR		Section(s): B.1		New version No.: 1.2	
<input type="checkbox"/> Changes in XLS		Worksheet(s):		New version No.:	
<input type="checkbox"/> Other:					
<b>DOE assessment (1<sup>st</sup> round)</b>					<b>Date:</b> 18/04/2019
MR version 1.2, Section B.1:					
<ol style="list-style-type: none"> <li>1. The description is deleted is appropriate since flare 1 has stopped operation</li> <li>2. The sentence above the Flare 2 specification is corrected.</li> <li>3. Figure 7 is corrected with 1 flare is no longer in operation.</li> <li>4. Flare 1 is deleted from Figure 8 since is no longer in operation.</li> <li>5. The paragraph below the sub-heading is revised for all descriptions related to flare 1 is deleted to reflect the current situation</li> <li>6. The paragraph below sub-heading Power Generation is updated to remove flare 1 to reflect current situation</li> </ol>					
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>		<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

<b>CAR ID</b>	CAR E.6-1	<b>Section no.</b>	C	<b>Date:</b>	023/04/2019
<b>Description of CAR</b>					

MR version 1.1, Section C:

1. The TDL<sub>y</sub> is an ex-ante value of 7.74%. The paragraph should be updated accordingly.
2. The CDM management meeting date is incorrect.
3. Table 4 to 6 did not indicate represents which gas engine.
4. Table 3: FT1 flow meter is exchange and the change flow meter details are not included
5. Table 4: CH<sub>4</sub> analyser has been changed twice. The previous and current analyser details are not included.
6. Table 6: During the period 07/12/2018 to 31/12/2018 the on-line CH<sub>4</sub> analyser is broken and a portable analyser is used. The details of the portable analyser is not included.
7. The MPE for all tables to be updated where relevant to reflect the actual situation.
8. Figure 12 to be updated to reflect the current situation.

**Project participant response (1<sup>st</sup> round)****Date:** 04/04/2019

MR version 1.2, Section C:

1. The paragraph for TDL is updated accordingly where 7.39% is deleted in revised MR.
2. The CDM Management Meeting date is corrected to 23/10/2018 in revised MR.
3. Labelling for representative gas engine is updated for Table 4 – 6 in revised MR.
4. The exchange of FT1 is included in table 3 in revised MR.
5. Detail of the change for CH<sub>4</sub> analyser is included in table 4 in revised MR.
6. The detail of the portable analyser is included in table 6 in revised MR.
7. The MPE is updated accordingly in revised MR.
8. Figure 12 (Figure 11 in revised MR) is updated accordingly.

**Documentation provided by project participant (1<sup>st</sup> round)**

<input type="checkbox"/> Changes in the PDD	Section(s):	New version No.:
<input checked="" type="checkbox"/> Changes in MR	Section(s):C	New version No.:1.2
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Other:		

**DOE assessment (1<sup>st</sup> round)****Date:** 18/04/2019

MR version 1.2, Section C:

1. The TDL<sub>y</sub> is an ex-ante value of 7.74%. The paragraph is updated accordingly with 7.39% deleted.
2. The CDM management meeting date is corrected to 23/10/2018.
3. Table 4 to 6 is updated with the gas engines labelling..
4. Table 3: FT1 flow meter is exchange and the change flow meter details are updated
5. Table 4: CH<sub>4</sub> analyser has been changed twice. The previous and current analyser details are updated in the table.
6. Table 6: During the period 07/12/2018 to 31/12/2018 the on-line CH<sub>4</sub> analyser is broken and a portable analyser is used. The details of the portable analyser is updated in the table.
7. The MPEs are updated in all tables to reflect the actual situation.
8. Figure 12 is change to Figure 11 and updated to reflect the current situation.

**Conclusion***Tick the appropriate checkbox*

- ☐ Additional action should be taken (finding remains open)
- ☒ The finding is closed

<b>CAR ID</b>	CAR E.6-2	<b>Section no.</b>	Appendix 1 & 2	<b>Date:</b>	03/04/2019
<b>Description of CAR</b>					
MR version 1.1, Appendix 1 & 2: The downtime shall be updated according to the Shutdown Records.					
<b>Project participant response (1<sup>st</sup> round)</b>				<b>Date:</b>	04/04/2019

MR Version 1.2 Appendices

Appendix 1 – 3 is updated accordingly in revised MR.

**Documentation provided by project participant (1<sup>st</sup> round)**

<input type="checkbox"/> Changes in the PDD	Section(s):	New version No.:
<input checked="" type="checkbox"/> Changes in MR	Section(s):Appendix	New version No.:1.2
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Other:		

**DOE assessment (1<sup>st</sup> round)****Date:** 18/04/2019

MR version 1.2, Appendix 1 &amp; 2: The downtimes are updated and according to the Shutdown Records.

**Conclusion***Tick the appropriate checkbox*

- ☐ Additional action should be taken (finding remains open)
- ☒ The finding is closed

<b>CAR ID</b>	CAR E.6-3	<b>Section no.</b>	Appendix 3	<b>Date:</b>	03/04/2019
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**Description of CAR**

MR version 1.1: Appendix 3 is missing.

**Project participant response (1<sup>st</sup> round)****Date:** 04/04/2019

MR version 1.2

The numbering of appendix is updated in revised MR.

**Documentation provided by project participant (1<sup>st</sup> round)**

<input type="checkbox"/> Changes in the PDD	Section(s):	New version No.:
<input checked="" type="checkbox"/> Changes in MR	Section(s):Appendix	New version No.:1.2
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Other:		

**DOE assessment (1<sup>st</sup> round)****Date:** 18/04/2019

MR version 1.2: The numbering of the Appendix is updated to reflect Appendix 3.

**Conclusion***Tick the appropriate checkbox*

- ☐ Additional action should be taken (finding remains open)
- ☒ The finding is closed

<b>CAR ID</b>	CAR E.7-1	<b>Section no.</b>	D.2	<b>Date:</b>	03/04/2019
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**Description of CAR**MR version 1.1: Section D.2, Parameter EG<sub>PJ,y</sub>:

1. A delay in calibration for EL9 and EL10. The MPE applied in the ER spreadsheet is for period 01/01/2018 to 31/01/2018. However, the table states 01/01/2018 to 24/01/2018.
2. The calibration error for meter EL12 is 1.17%. The error applied in the spreadsheet is 1.7%. The re-calculated data shall be corrected.

**Project participant response (1<sup>st</sup> round)****Date:** 04/04/2019

MR version 1.2, Section D.2

1. The date for MPE applied is corrected in revised MR.
2. The calibration error applied is corrected in revised MR and CER sheet.

**Documentation provided by project participant (1<sup>st</sup> round)**

<input type="checkbox"/> Changes in the PDD	Section(s):	New version No.:
<input checked="" type="checkbox"/> Changes in MR	Section(s):D.2	New version No.:1.2
<input checked="" type="checkbox"/> Changes in XLS	Worksheet(s): Monthly EL PJ Tab	New version No.:1.2
<input type="checkbox"/> Other:		

**DOE assessment (1<sup>st</sup> round)****Date:** 18/04/2019MR version 1.2: Section D.2, Parameter EG<sub>PJ,y</sub>:

1. A delay in calibration for EL9 and EL10. The MPE date in the MR is corrected to be same as the ER spreadsheet period 01/01/2018 to 31/01/2018.
2. The calibration error for meter EL12 is 1.17%. The error applied in the spreadsheet is corrected to 1.17%. The data are re-calculated and applied correctly.

<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed
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<b>CAR ID</b>	CAR E.7-2	<b>Section no.</b>	D.2	<b>Date:</b>	03/04/2019	
<b>Description of CAR</b>						
ER spreadsheet version 1.1, Section D.2, Parameter $EG_{EC,y}$ : A delay in calibration for EL6. The MPE applied in the ER spreadsheet is for period 01/01/2018 to 31/01/2018. However, the table states 01/01/2018 to 24/01/2018.						
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date:</b>	04/04/2019
ER spreadsheet version 1.2, Section D.2 The date for MPE applied is corrected in revised CER sheet and revised MR.						
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>						
<input type="checkbox"/>	Changes in the PDD	Section(s):		New version No.:		
<input checked="" type="checkbox"/>	Changes in MR	Section(s):D.2		New version No.:1.2		
<input checked="" type="checkbox"/>	Changes in XLS	Worksheet(s): Monthly EL PJ Tab		New version No.:1.2		
<input type="checkbox"/>	Other:					
<b>DOE assessment (1<sup>st</sup> round)</b>					<b>Date:</b>	18/04/2019
ER spreadsheet version 1.2, Section D.2, Parameter $EG_{EC,y}$ : The MPE date in the table is corrected and same as the ER spreadsheet period 01/01/2018 to 31/01/2018.						
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed					

<b>CAR ID</b>	CAR E.7-3	<b>Section no.</b>	D.2	<b>Date:</b>	03/04/2019	
<b>Description of CAR</b>						
MR version 1.1, Section D.2, Parameter $V_{t,wb}$ : There is an exchange of flow meter for Flare 2. The details for the change flow meter are not included						
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date:</b>	04/04/2019
MR version 1.2, Section D.2, Parameter $V_{t,wb}$ : The exchange of the flow meter is included in revised MR.						
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>						
<input type="checkbox"/>	Changes in the PDD	Section(s):		New version No.:		
<input checked="" type="checkbox"/>	Changes in MR	Section(s):D.2		New version No.:1.2		
<input type="checkbox"/>	Changes in XLS	Worksheet(s):		New version No.:		
<input type="checkbox"/>	Other:					
<b>DOE assessment (1<sup>st</sup> round)</b>					<b>Date:</b>	18/04/2019
MR version 1.2, Section D.2, Parameter $V_{t,wb}$ : The exchange flow meter for Flare 2 is updated in MR.						
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed					

<b>CAR ID</b>	CAR E.7-4	<b>Section no.</b>	D.2	<b>Date:</b>	03/04/2019	
<b>Description of CAR</b>						
MR version 1.1, Section D.2, Parameter $V_{CH_4,m,db}$ : The Flare 2 CH <sub>4</sub> analyser has been changed twice. The previous and current analyser details are not included.						
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date:</b>	04/04/2019
MR version 1.2, Section D.2, Parameter $V_{CH_4,m,db}$ : The information of the analyser is included in revised MR.						
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>						
<input type="checkbox"/>	Changes in the PDD	Section(s):		New version No.:		
<input checked="" type="checkbox"/>	Changes in MR	Section(s):D.2		New version No.:1.2		
<input type="checkbox"/>	Changes in XLS	Worksheet(s):		New version No.:		
<input type="checkbox"/>	Other:					
<b>DOE assessment (1<sup>st</sup> round)</b>					<b>Date:</b>	18/04/2019

MR version 1.2, Section D.2, Parameter  $V_{CH_4,m,db}$ : The details of the previous and current Flare 2 CH<sub>4</sub> analyser are updated in the table.

**Conclusion**

*Tick the appropriate checkbox*

- ☐ Additional action should be taken (finding remains open)  
☒ The finding is closed

<b>CAR ID</b>	CAR E.8-1	<b>Section no.</b>	D.2	<b>Date:</b>	03/04/2019
<b>Description of CAR</b>					
MR version 1.1, Section D.2, Parameter $f_y$ : The measured value for GSSF1 shall be corrected due to use of portable analyser during the period when the on-line analyser broken.					
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date:</b> 04/04/2019
MR version 1.2, Section D.2, Parameter $f_y$ : The measurement period (07/10/18 – 31/12/18) using portable analyser to measure GSSF1 CH <sub>4</sub> is described in revised MR.					
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>					
<input type="checkbox"/> Changes in the PDD		Section(s):		New version No.:	
<input checked="" type="checkbox"/> Changes in MR		Section(s):D.2		New version No.:1.2	
<input type="checkbox"/> Changes in XLS		Worksheet(s):		New version No.:	
<input type="checkbox"/> Other:					
<b>DOE assessment (1<sup>st</sup> round)</b>					<b>Date:</b> 18/04/2019
MR version 1.2, Section D.2, Parameter $f_y$ : The measured value for GSSF1 has been corrected to reflect during the period when the portable analyser is used.					
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>		<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

<b>CAR ID</b>	CAR E.8-2	<b>Section no.</b>	D.2	<b>Date:</b>	03/04/2019
<b>Description of CAR</b>					
MR version 1.1, Section D.2, Parameter $V_{CH_4,m,db}$ : The measured value for GSSF1 shall be corrected due to use of portable analyser during the period when the on-line analyser broken from 07/12/2018 to 31/12/2018.					
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date:</b> 04/04/2019
MR version 1.2, Section D.2, Parameter $V_{CH_4,m,db}$ : The value is corrected accordingly in revised MR. The description for the affected period is included in revised MR.					
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>					
<input type="checkbox"/> Changes in the PDD		Section(s):		New version No.:	
<input checked="" type="checkbox"/> Changes in MR		Section(s):D.2		New version No.:1.2	
<input type="checkbox"/> Changes in XLS		Worksheet(s):		New version No.:	
<input type="checkbox"/> Other:					
<b>DOE assessment (1<sup>st</sup> round)</b>					<b>Date:</b> 18/04/2019
MR version 1.2, Section D.2, Parameter $V_{CH_4,m,db}$ : The measured value for GSSF1 has been corrected to reflect the use of portable analyser during the period when the on-line analyser broken from 07/12/2018 to 31/12/2018.					
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>		<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

<b>CAR ID</b>	CAR E.8-3	<b>Section no.</b>	E.1	<b>Date:</b>	03/04/2019
<b>Description of CAR</b>					
MR version 1.1, Section E.1:					
<ol style="list-style-type: none"> <li>1. <math>BE_{CH_4,y}</math>: The measured value for GSSF1 shall be corrected due to use of portable analyser during the period when the on-line analyser broken from 07/12/2018 to 31/12/2018</li> <li>2. <math>BE_{EC,y}</math>: The TDL<sub>y</sub> data apply in GSS1 and GSS2 for Jan to May 2018 is inconsistent with the ex-ante value.</li> <li>3. Baseline emissions to be corrected with the corrections of above.</li> </ol>					

<b>Project participant response (1<sup>st</sup> round)</b>		<b>Date:</b>	04/04/2019
MR version 1.2, Section E.1:			
<ol style="list-style-type: none"> <li>1. BE<sub>CH<sub>4</sub>,y</sub>: The measured value for GSSF1 is corrected in revised MR.</li> <li>2. BE<sub>EC, y</sub>: The TDL<sub>y</sub> data apply in GSS1 and GSS2 for Jan to May 2018 is corrected in revised MR.</li> <li>3. Baseline emissions is updated accordingly in revised MR.</li> </ol>			
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>			
<input type="checkbox"/>	Changes in the PDD	Section(s):	New version No.:
<input checked="" type="checkbox"/>	Changes in MR	Section(s):E.1	New version No.:1.2
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/>	Other:		
<b>DOE assessment (1<sup>st</sup> round)</b>		<b>Date:</b>	18/04/2019
MR version 1.2, Section E.1:			
<ol style="list-style-type: none"> <li>1. BE<sub>CH<sub>4</sub>,y</sub>: The measured value for GSSF1 is corrected with the use of portable analyser during the period when the on-line analyser broken from 07/12/2018 to 31/12/2018</li> <li>2. BE<sub>EC, y</sub>: The TDL<sub>y</sub> data apply in GSS1 and GSS2 for Jan to May 2018 is corrected and consistent with the ex-ante value.</li> <li>3. Baseline emissions corrected with the corrections of the above.</li> </ol>			
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>		<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed	

<b>CAR ID</b>	CAR E.8-4	<b>Section no.</b>	E.2	<b>Date:</b>	03/04/2019	
<b>Description of CAR</b>						
MR version 1.1, Section E.2:						
<ol style="list-style-type: none"> <li>1. The TDL<sub>y</sub> applied for Jan to May 2018 is not consistent with ex-ante value</li> <li>2. The TDL<sub>y</sub> value in point 2 is incorrect.</li> <li>3. Project emissions should be corrected with the correction of above.</li> </ol>						
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date</b>	04/04/2019
MR version 1.2, Section E.2:						
<ol style="list-style-type: none"> <li>1. The TDL<sub>y</sub> applied for Jan to May 2018 is corrected in revised MR.</li> <li>2. The TDL<sub>y</sub> value in point 2 is corrected in revised MR.</li> <li>3. Project emissions is updated accordingly in revised MR.</li> </ol>						
<b>Documentation provided by project participant (1<sup>st</sup> round)</b>						
<input type="checkbox"/>	Changes in the PDD	Section(s):	New version No.:			
<input checked="" type="checkbox"/>	Changes in MR	Section(s):E.2	New version No.:1.2			
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:			
<input type="checkbox"/>	Other:					
<b>DOE assessment (1<sup>st</sup> round)</b>					<b>Date:</b>	18/04/2019
MR version 1.2, Section E.2:						
<ol style="list-style-type: none"> <li>1. The TDL<sub>y</sub> applied for Jan to May 2018 is corrected and consistent with ex-ante value</li> <li>2. The TDL<sub>y</sub> value in point 2 is correct.</li> <li>3. Project emissions corrected with the correction of above.</li> </ol>						
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>		<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed				

<b>CAR ID</b>	CAR E.8-5	<b>Section no.</b>	E.4	<b>Date:</b>	03/04/2019	
<b>Description of CAR</b>						
MR version 1.1, Section E.4: BE and PE shall be corrected with the correction of above						
<b>Project participant response (1<sup>st</sup> round)</b>					<b>Date:</b>	04/04/2019

MR version 1.2, Section E.4:

BE and PE is corrected in revised MR.

**Documentation provided by project participant (1<sup>st</sup> round)**

<input type="checkbox"/> Changes in the PDD	Section(s):	New version No.:
<input checked="" type="checkbox"/> Changes in MR	Section(s):E.4	New version No.:1.2
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Other:		

**DOE assessment (1<sup>st</sup> round)****Date:** 18/04/2019

MR version 1.2, Section E.4: BE and PE are corrected with the correction of above

**Conclusion***Tick the appropriate checkbox*☐ Additional action should be taken (finding remains open)☒ The finding is closed

<b>CAR ID</b>	CAR E.8-6	<b>Section no.</b>	E.5, E.6 and cover page	<b>Date:</b>	03/04/2019
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**Description of CAR**

MR version 1.1, Section E.4, E.5, E.6 and Cover Page: The ER achieved for this monitoring period shall be corrected accordingly.

**Project participant response (1<sup>st</sup> round)****Date:** 04/04/2019

MR version 1.2, Section E.4, E.5, E.6 and Cover Page:

The ER achieved for this monitoring period is corrected in revised MR.

**Documentation provided by project participant (1<sup>st</sup> round)**

<input type="checkbox"/> Changes in the PDD	Section(s):	New version No.:
<input checked="" type="checkbox"/> Changes in MR	Section(s):E.4	New version No.:1.2
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Other:		

**DOE assessment (1<sup>st</sup> round)****Date:** 18/04/2019

MR version 1.2, Section E.4, E.5, E.6 and Cover Page: The ER achieved for this monitoring period corrected accordingly.

**Conclusion***Tick the appropriate checkbox*☐ Additional action should be taken (finding remains open)☒ The finding is closed

<b>CAR ID</b>	CAR E.8-7	<b>Section no.</b>	ER spreadsheet	<b>Date:</b>	03/04/2019
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**Description of CAR**

ER spreadsheet version 1.0:

1. The TDL<sub>y</sub> applied for period Jan to May 2018 in BE GSS1, BE GSS2, PE<sub>y</sub> (EC<sub>PJy</sub>) is not consistent with the ex-ante value.
2. Corrections to relevant cells and tabs based on above findings.
3. The following tabs should be updated.
  - a. ER calculation: The explanation notes do not reflect the downtime for each system.
  - b. BE<sub>y</sub> GSS1: Corrections for rows 42 and 54
  - c. BE<sub>y</sub> GSS2: Corrections for rows 40 and 53
  - d. BE<sub>y</sub> GSSF1: Corrections for row 52
  - e. PE<sub>y</sub>: Correction for row 46
  - f. Daily Graph: This is not relevant and delete to avoid confusion
  - g. Description of EL PJ: To reflect the current monitoring period
  - h. Explanation: To reflect the current monitoring period
  - i. Assumptions. Flare 1 is no longer in operation and should be deleted
  - j. Observations. Flare 1 is no longer in operation and should be deleted
  - k. Notes: Row 10 does not reflect the current monitoring period
  - l. Raw Data: This is not relevant and delete to avoid confusion.

**Project participant response (1<sup>st</sup> round)****Date:** 04/04/2019



ER spreadsheet version 1.2:

1. The TDL<sub>y</sub> applied for period Jan to May 2018 in BE GSS1, BE GSS2, PE<sub>y</sub> (EC<sub>PJy</sub>) is corrected in revised ER sheet.
2. Corrections was done in revised ER sheet based on above findings.
3. The following tabs should be updated.
  - a. ER calculation: The explanation notes for the downtime for each system is corrected accordingly in revised ER sheet.
  - b. BEy GSS1: Corrections was done for rows 42 and 54 in revised ER sheet.
  - c. BEy GSS2: Corrections was done for rows 40 and 53 in revised ER sheet.
  - d. BEy GSSF1: Corrections was done for row 52 in revised ER sheet.
  - e. PEy: Correction was done for row 46 in revised ER sheet.
  - f. Daily Graph: The graph is deleted in revised ER sheet.
  - g. Description of EL PJ: the description is updated accordingly in revised ER sheet.
  - h. Explanation: the description is updated accordingly in revised ER sheet.
  - i. Assumptions. The assumptions tab is removed from revised ER sheet due to Flare 1 is not relevant for this monitoring period.
  - j. Observations. The observation tab is removed from revised ER sheet due to Flare 1 is not relevant for this monitoring period
  - k. Notes: Row 10 is removed in revised ER sheet
  - l. Raw Data: Raw data tab is removed from revised ER sheet.

**Documentation provided by project participant (1<sup>st</sup> round)**

<input type="checkbox"/>	Changes in the PDD	Section(s):	New version No.:
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:
<input checked="" type="checkbox"/>	Changes in XLS	Worksheet(s):Tab listed above	New version No.:1.2
<input type="checkbox"/>	Other:		

**DOE assessment (1<sup>st</sup> round)**

**Date:** 18/04/2019

ER spreadsheet version 1.2:

1. The TDL<sub>y</sub> applied for period Jan to May 2018 in BE GSS1, BE GSS2, PE<sub>y</sub> (EC<sub>PJy</sub>) is corrected and consistent with the ex-ante value.
2. Corrections to relevant cells and tabs are corrected for the above findings.
3. The following tabs are updated.
  - a. ER calculation: The explanation notes is updated to reflect the downtime for each system.
  - b. BEy GSS1: Rows 42 and 54 are corrected.
  - c. BEy GSS2: Rows 40 and 53 are corrected
  - d. BEy GSSF1: Row 52 is corrected
  - e. PEy: Row 46 is corrected
  - f. Daily Graph: The graph is deleted to avoid confusion
  - g. Description of EL PJ: The description is updated to reflect the current monitoring period
  - h. Explanation: The description is updated to reflect the current monitoring period
  - i. Assumptions. The tab is removed since Flare 1 is no longer in operation.
  - j. Observations. Flare 1 is removed since no longer in operation.
  - k. Notes: Row 10 is removed since not relevant for the current monitoring period
  - l. Raw Data: The tab is removed to avoid confusion.

**Conclusion**

*Tick the appropriate checkbox*

- ☐ Additional action should be taken (finding remains open)
- ☒ The finding is closed

Table 5. FAR from this verification

FAR ID	xx	Section No.	Date: DD/MM/YYYY
Description of FAR			
NA			
Project participant response			Date: DD/MM/YYYY
Documentation provided by project participant			
DOE assessment			Date: DD/MM/YYYY

## Appendix 5. Monitored Parameters

**Table A-5:** Periodic Verification Checklist – Monitored Parameters

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.						
<b>1. Management of SWDS</b>		<b>Description: Management of the SWDS</b>								
<p><b>a) Measurement / Determination method (VVS, §§ 363-367)</b>  Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</p>	<p>/MR/ /PDD1/ /O2/</p>	<p><i>Description:</i>  The parameter monitors the management of the SWDS  During this monitoring period, there is no change to the original design of the landfill of any change to the technical specification and regulation announced by the host country to regulate LFG projects</p> <p><i>Verifier's action:</i>  The verification team has visited the landfill site and there is no change to the design or technical specifications of the landfill sites  Based on interviews conducted onsite and a web search the verification team can confirm that there is no regulation announced by the host country government for methane capturing in LFG projects</p> <p><i>Conclusion:</i>  It is concluded the parameter is monitored in accordance with the approved revised PDD</p> <table border="1"> <tr> <td><input type="checkbox"/></td> <td>In this context the following findings have been raised:</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table>	<input type="checkbox"/>	In this context the following findings have been raised:	<input type="checkbox"/>		<input type="checkbox"/>		OK	OK
<input type="checkbox"/>	In this context the following findings have been raised:									
<input type="checkbox"/>										
<input type="checkbox"/>										
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b></p>	<p>/MR/ /PDD1/</p>	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td> </tr> </table>	<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	OK	OK				
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Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
<p><i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i></p> <p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p> <p><i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>	/MM1/ /IM01/	<input type="checkbox"/> For details regarding the accuracy and calibration details please refer to Appendix 6		
		<input type="checkbox"/> No delayed calibration has occurred		
		<input checked="" type="checkbox"/> As per the initial assessment the monitored value is deemed to be correct.		
		<input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.		
		<input type="checkbox"/> Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY		
		<input type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
		<input type="checkbox"/> The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input type="checkbox"/> The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input type="checkbox"/> The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input type="checkbox"/> The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals  <input type="checkbox"/> The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input type="checkbox"/> In this context the following findings have been raised:		

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
		<div><input type="checkbox"/></div> <div><input type="checkbox"/></div>		
<b>2. Op<sub>j,h</sub></b>		<b>Description: Operation of the equipment that consumes the LFG</b>		
<p><b>a) Measurement / Determination method (VVS, §§ 363-367)</b>  Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</p>	/ MR / / ACM1 / / PDD1 / / ER6 / / ER8 / / DML2- DML6 / / SDR1- SDR5 /	<p><i>Description:</i></p> <p>The parameter monitor the operation of the gas engines and flares are measure continuously by the run-hour meter for the gas engine, UV flame detector for the flare with thermocouples to measure the operating temperature.</p> <p>All monitored data are capture in the SCADA system.</p> <p>During the month of November and December 2018, GE4 is shutdown for some maintenance work</p> <p>The data is recorded on hourly, aggregated monthly and yearly.</p> <p><i>Verifier's action:</i></p> <p>During the onsite assessment, the run-hour meters installed at each engine were inspected.</p> <p>The operational log records for the flare and gas engines operational hours and flame detector are review.</p> <p>The shutdown records for GE4 is reviewed to crosscheck on the shutdown.</p> <p>There are no exchange of gas engines or flare during this monitoring period.</p> <p>The monitoring of the engines and flares operating hours has no impact and will not affect the emission reduction calculations. Therefore, the verification team consider the measurement is insignificant.</p> <p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved PDD and applied methodology</p>	OK	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.																		
		<input type="checkbox"/> In this context the following findings have been raised: <table border="1"> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table>	<input type="checkbox"/>		<input type="checkbox"/>																	
<input type="checkbox"/>																						
<input type="checkbox"/>																						
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b>  <i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i>  <i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i>  <i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>	/MR/ /ER7/ /ER9/ /MM1/ /IM01/	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td> </tr> <tr> <td><input type="checkbox"/></td> <td>For details regarding the accuracy and calibration details please refer to Appendix 6</td> </tr> <tr> <td><input type="checkbox"/></td> <td>No delayed calibration has occurred</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>As per the initial assessment the monitored value is deemed to be correct.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>           Based on calibration certificates checked a delay in calibration has been identified for the following period:            Start date of delay: DD/MM/YYYY            End date of delay: DD/MM/YYYY         </td> </tr> <tr> <td><input type="checkbox"/></td> <td>A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:</td> </tr> <tr> <td><input type="checkbox"/></td> <td>The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration</td> </tr> <tr> <td><input type="checkbox"/></td> <td>The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument</td> </tr> </table>	<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	<input type="checkbox"/>	No delayed calibration has occurred	<input checked="" type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.	<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.	<input type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY	<input type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:	<input type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration	<input type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument	OK	OK
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		<table border="1"> <tr> <td><input type="checkbox"/></td> <td>The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument</td> </tr> <tr> <td><input type="checkbox"/></td> <td>The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals</td> </tr> <tr> <td><input type="checkbox"/></td> <td>The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>           In this context the following findings have been raised:           <table border="1"> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table> </td> </tr> </table>	<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument	<input type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals	<input type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.	<input type="checkbox"/>	In this context the following findings have been raised: <table border="1"> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table>	<input type="checkbox"/>		<input type="checkbox"/>			
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<b>3. EG<sub>PJ,y</sub> (EL<sub>LFG,GE No.1,y</sub>, EL<sub>LFG,GE No.2,y</sub>, EL<sub>LFG,GE No.3,y</sub>, EL<sub>LFG,GE No.4,y</sub>)</b>		<b>Description: Amount of electricity generated using LFG by the project activity in year y</b>														
<p><b>a) Measurement / Determination method (VVS, §§ 363-367)</b>  Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</p>	/ MR / / PDD1 / / ACM1 / / E9 / / E10 / / E12 / / E14 / / E15 / / CF25 / / CF27 / / CF36- CF38 /	<p><i>Description:</i>  This parameter monitored the net amount of electricity generated using landfill gas.</p> <p><b>GSSF1 (Gas Engine 1):</b>  The amount of electricity generated by the gas engine no. 1 is measured by meter EL4.</p> <p>EL1 is no longer in use and act as a standby meter to record the actual power consumption for Flare 2 and GSSF1. A delay in calibration of the meter, however there is no impact to the ER since it is backup meter and will be used in the event EL6 is malfunction.</p> <p>The amount of electricity generated by gas engine 1 for export to the grid is measured by meter EL5 which belongs to the grid operator, Tenaga Nasional Berhad (TNB).</p> <p>The net amount of electricity exported to the grid from gas engine 1 is compared between the amount generated measured by meter EL4 and the read measured value from the grid meter EL5 and the</p>	CAR E.7-1	OK												

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
	/CF45- CF46/  /ER1/	<p>lower value will be applied as the quantity of electricity generated by gas engine 1 for the baseline emissions.</p> <p>EL5 is owned by TNB and calibration is not conducted since the due date.</p> <p>In accordance to VVS, version 02.0, para. 368, "If the results of the delayed calibration are not available, or the calibration has not been conducted at the time of the verification, the DOE, prior to finalizing the verification, shall request the project participants to conduct the required calibration and shall determine whether the project participants have calculated GHG emission reductions or net anthropogenic GHG removals conservatively using the approach mentioned in paragraph 358 above.</p> <p>Para 368: If, during the verification of a certain monitoring period, the DOE identifies that the calibration has been delayed and the calibration has been implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available), referring to the illustrative examples in the appendix below, the DOE may conclude its verification, provided the following conservative approach is adopted in the calculation of GHG emission reductions or net anthropogenic GHG removals;</p> <p>a) Applying the maximum permissible error of the instrument to the measured values taken during the period between the scheduled date of calibration and the actual date of calibration, if the results of the delayed calibration do not show any errors in the measuring equipment, or if the error is smaller than the maximum permissible error</p> <p>Therefore, for conservativeness, the PP has apply the meter accuracy of 0.2% as MPE to the measured date for period 01/01/2018 to 31/12/2018.</p> <p><b>GSS1 (Gas Engine 2 &amp; 3):</b></p> <p>The amount of electricity generated by the gas engines 2 &amp; 3 is measured by meters EL9 &amp; EL10.</p>		



Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
		<p>The amount of electricity generated by gas engines 2 &amp; 3 for export to the grid is measured by meter EL11 which belongs to the grid operator, Tenaga Nasional Berhad (TNB).</p> <p>The calculated sum value of meters EL9 + EL10 is compared with the read value from EL11 and the lower value will be taken as the quantity of electricity generated by gas engines 2 &amp; 3 for the baseline emissions.</p> <p>EL9: A delay in calibration conducted on 25/01/2018, calibration error of 2.08% found. The MPE of 2.08% is applied to the data for period 01/01/2018 to 31/01/2018 for conservativeness instead of 01/01/2018 to 24/01/2018.</p> <p>EL10: A delay in calibration conducted on 25/01/2018, calibration error of 1.14% found. The MPE of 1.14% is applied to the data for period 01/01/2018 to 31/01/2018 for conservativeness instead of 01/01/2018 to 24/01/2018.</p> <p>EL11 is owned by TNB and calibration has not been conducted since due date.</p> <p>In accordance to VVS, version 02.0, para. 368, "If the results of the delayed calibration are not available, or the calibration has not been conducted at the time of the verification, the DOE, prior to finalizing the verification, shall request the project participants to conduct the required calibration and shall determine whether the project participants have calculated GHG emission reductions or net anthropogenic GHG removals conservatively using the approach mentioned in paragraph 366 above.</p> <p>Para 366: If, during the verification of a certain monitoring period, the DOE identifies that the calibration has been delayed and the calibration has been implemented after the monitoring period in consideration (i.e. the results of delayed calibration are available), referring to the illustrative examples in the appendix below, the DOE may conclude its verification, provided the following conservative approach is adopted in the calculation of GHG emission reductions or net anthropogenic GHG removals;</p>		

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
		<p>a) Applying the maximum permissible error of the instrument to the measured values taken during the period between the scheduled date of calibration and the actual date of calibration, if the results of the delayed calibration do not show any errors in the measuring equipment, or if the error is smaller than the maximum permissible error</p> <p>Therefore, for conservativeness, the PP has applied the meter accuracy of 0.5% as MPE to the measured date for period 01/01/2018 to 31/12/2018.</p> <p>Therefore, for conservativeness, meter accuracy of 0.5% is applied to the data for period 01/01/2018 to 31/12/2018 in accordance to VVS, version 02, , §367 (a), "In a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals</p> <p><b>GSS2 (Gas Engine 4):</b></p> <p>The amount of electricity generated by the gas engine 4 is measured by meter EL12.</p> <p>EL12: A delay in calibration conducted on 08/08/2018, calibration error of 1.17% found. The MPE of 1.17% is applied to the data for period 04/02/2018 to 07/08/2018 for conservativeness.</p> <p>The amount of electricity generated by gas engine 4 for export to the grid is measured by meter EL13 that belongs to the grid operator, Tenaga Nasional Berhad (TNB).</p> <p>The amount recorded by meter EL12 is compared with the read value from meter EL13 and the lower value has be taken as the quantity of electricity generated by gas engine 4 for the baseline emissions.</p> <p>Meter EL13 is owned by TNB and calibration was conducted 14/06/2016 and remains valid for this monitoring period.</p> <p>For meters details please refer to the parameter table in section D.2 and section C of the MR and Appendix 6 of this report.</p>		

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		<p><i>Verifier's action:</i></p> <p>During the onsite visit the following were checked and obtained.</p> <ul style="list-style-type: none"> <li>All meters specifications stated in parameter table in MR are correct and in operating condition.</li> <li>Verified recorded data</li> <li>Verified data applied for baseline emissions is the lower value of the compared data in the ER spreadsheet.</li> <li>MPE applied are in accordance to meter accuracy or calibration error found during calibration.</li> </ul> <p><i>Conclusion:</i></p> <p>The parameter is monitor in accordance to the approved revised PDD and applied methodology.</p> <table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>In this context the following findings have been raised:</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>CAR E.7-1</td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> </table>	<input checked="" type="checkbox"/>	In this context the following findings have been raised:	<input checked="" type="checkbox"/>	CAR E.7-1	<input type="checkbox"/>							
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<input type="checkbox"/>														
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b></p> <p><i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i></p> <p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p>	/MR/ /E9/ /E10/ /E12/ /E14/ /E15/ /CF25/ /CF36- CF38/	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>For details regarding the accuracy and calibration details please refer to Appendix 6</td></tr> <tr> <td><input type="checkbox"/></td><td>No delayed calibration has occurred</td></tr> <tr> <td><input type="checkbox"/></td><td>As per the initial assessment the monitored value is deemed to be correct.</td></tr> <tr> <td><input type="checkbox"/></td><td>Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.</td></tr> </table>	<input checked="" type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input checked="" type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	<input type="checkbox"/>	No delayed calibration has occurred	<input type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.	<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.	CAR E.7-1	OK
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Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.	/CF45- CF46/ /ER1/ /MM1/	<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: Refer Appendix 6 for details  End date of delay: Refer Appendix 6 for details		
		<input checked="" type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
		<input checked="" type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input checked="" type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input checked="" type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		
		<input checked="" type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input checked="" type="checkbox"/>	In this context the following findings have been raised:		
			<input checked="" type="checkbox"/>		
	<input checked="" type="checkbox"/>				
<b>4. EG<sub>EC,y</sub></b>		<b>Description: Amount of electricity consumed by the project activity in year y</b>			
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b>	/MR/ /PDD1/	Description:  This parameter monitors the quantity of electricity consumed by the project activity Flare 2 systems, gas engines auxiliaries for GE1, 2 &		OK	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
<p><i>Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</i></p>	/ACM1/ /ER1/ /E14/ /CF35/ /DML3/	3, 4, from the grid and measured by meter EL6 owned by the project owner.  EL6. A delay in calibration conducted on 25/01/2018, no calibration error found. The MPE of 1% which is the meter accuracy error is applied to the data for period 01/01/2018 to 31/01/2018 instead of 01/01/2018 to 24/01/2018 for conservativeness.  The data is read daily, recorded and aggregated monthly.  For meters details please refer to the parameter table in section D.2 and section C of the MR and Appendix 6 of this report		
		<i>Verifier's action:</i>  The grid electricity consumed by project activity were verified and the data applied in ER spreadsheet were crosschecked with the daily records.  The MPE applied to the data for the delay in calibration period is cross-checked in ER spreadsheet for correctness.  A daily manual reading and recorded.		
		<i>Conclusion:</i>  The parameter is monitored in accordance with the approved revised PDD and applied methodology		
		<input type="checkbox"/> In this context the following findings have been raised:		
		<input type="checkbox"/>		
		<input type="checkbox"/>		
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b> <i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions</i></p>	/MR/ /ER1/ /MM1/ /IM01/	<input checked="" type="checkbox"/> It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	OK	OK
		<input checked="" type="checkbox"/> For details regarding the accuracy and calibration details please refer to Appendix 6		
		<input type="checkbox"/> No delayed calibration has occurred		

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
<p><i>theoretically possible have been made for calculating ERs.</i></p> <p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p> <p><i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>		<input checked="" type="checkbox"/> As per the initial assessment the monitored value is deemed to be correct.		
		<input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.		
		<input checked="" type="checkbox"/> Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: 01/01/2018  End date of delay: 24/01/2018		
		<input checked="" type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
		<input checked="" type="checkbox"/> The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input checked="" type="checkbox"/> The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input type="checkbox"/> The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input checked="" type="checkbox"/> The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		
		<input checked="" type="checkbox"/> The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input type="checkbox"/> In this context the following findings have been raised: <table border="1"> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table>		
<input type="checkbox"/>				
<input type="checkbox"/>				

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.						
5. f <sub>y</sub>		<b>Description: Fraction of methane captured at the SWDS and flared, combusted or used in another manner that prevents the emissions of methane to the atmosphere in year y</b>								
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b> Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.	/MR/ /PDD1/ /ACM1/ /ER1/	<p><b>Description:</b></p> <p>The parameter measured the methane % by an online gas analyser for Flare 2, GSS1, GSS2 and GSSF1.</p> <p>A delay in calibration for GSSF1 analyser on 07/10/2018 with MPE of 2% which is instrument accuracy error is applied to data from 13/09/2018 to 06/10/2018.</p> <p>The on-line analyser for GSSF1 malfunction on 07/10/2018 and a portable analyser was used to measure the data.</p> <p>The data is for reporting purposes, not applied in ER calculations and once for the crediting period.</p> <p><b>Verifier's action:</b></p> <p>During the onsite assessment, the data in the MR was crosschecked with the ER spreadsheet for correctness</p> <p><b>Conclusion:</b></p> <p>The parameter is monitored in accordance with the approved revised PDD and applied methodology</p> <table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>In this context the following findings have been raised:</td></tr> <tr> <td><input type="checkbox"/></td><td>CAR E.8-1</td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> </table>	<input checked="" type="checkbox"/>	In this context the following findings have been raised:	<input type="checkbox"/>	CAR E.8-1	<input type="checkbox"/>		CAR E.8-1	OK
<input checked="" type="checkbox"/>	In this context the following findings have been raised:									
<input type="checkbox"/>	CAR E.8-1									
<input type="checkbox"/>										
<b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b> In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the	/MR/ /ER1/ /MM1/ /IM01/	<table border="1"> <tr> <td><input type="checkbox"/></td><td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td></tr> <tr> <td><input type="checkbox"/></td><td>For details regarding the accuracy and calibration details please refer to Appendix 6</td></tr> </table>	<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	CAR E.8-1	OK		
<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan									
<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6									

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.	
<p><i>monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i></p> <p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p> <p><i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>		<input type="checkbox"/> No delayed calibration has occurred			
		<input type="checkbox"/> As per the initial assessment the monitored value is deemed to be correct.			
		<input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.			
		<input type="checkbox"/> Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY			
		<input type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:			<input type="checkbox"/> The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration
					<input type="checkbox"/> The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument
					<input type="checkbox"/> The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument
					<input type="checkbox"/> The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals
					<input type="checkbox"/> The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.
		<input checked="" type="checkbox"/> In this context the following findings have been raised:			<input checked="" type="checkbox"/> CAR E.8-1



Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)			Draft Concl.	Final Concl.
			<input type="checkbox"/>			
<b>6. TEG<sub>m</sub> (T<sub>Flare,F2</sub>)</b>		<b>Description: Temperature in the exhaust gas of the enclosed flare in minute <i>m</i></b>				
<p><b>a) Measurement / Determination method (VVS, §§ 363-367)</b>  Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</p>	/ MR / / PDD1 / / ACM1 / / ER1 / / ER6 / / CF12 / / DML2 / / SDR1 / / FRD2 /	<p><i>Description:</i></p> <p>This parameter monitors the temperature of the exhaust gas of the enclosed flare 2.</p> <p>A temperature sensor (thermocouple) is installed at the flare to capture the data.</p> <p>The parameter is continuously measured by the temperature sensor.</p> <p>A delay in calibration conducted on 11/10/2018 with no calibration error found. Due the delay, MPE of 0.5% which is the instrument accuracy class is applied to the data for period 13/09/2018 to 10/10/2018 for conservativeness.</p> <p><i>Verifier's action:</i></p> <p>The data is review and crosschecked with ER spreadsheet during onsite visit to confirm the MPE applied for the period of delay calibration.</p> <p>The transmitters specification were checked to confirm the instrument accuracy error and calibration reports for the MPE applied is correct.</p> <p>A daily manual reading and recorded.</p> <p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved revised PDD and applied methodology</p>			OK	OK
		<input type="checkbox"/>	In this context the following findings have been raised:			
		<input type="checkbox"/>				
		<input type="checkbox"/>				

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
<b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b> <i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i> <i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i> <i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i>	/MR/ /ER1/ /IM01/ /MM1/ /CF12/ /E7/	<input checked="" type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	OK	OK
		<input checked="" type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6		
		<input type="checkbox"/>	No delayed calibration has occurred		
		<input checked="" type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.		
		<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.		
		<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: 13/09/2018 End date of delay: 10/10/2018		
		<input checked="" type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
		<input checked="" type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input checked="" type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input checked="" type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
		<input checked="" type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input type="checkbox"/>	In this context the following findings have been raised:		
		<input type="checkbox"/>			
		<input type="checkbox"/>			
<b>7. Flame<sub>m</sub></b>		<b>Description: Flame detection of flare in the minute m</b>			
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b> Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.	/MR/ /PDD1/ /ER6/ /ACM1/ /FRD2/	<b>Description:</b> The operation of the flaring system is monitored whenever in operation by an UV flame detector continuously and data recorded in the DCS system.  <b>Verifier's action:</b> The flame detection is crosschecked with the amount of gas sent to flare 2 for combustion. The operation data in crosschecked with the raw data to confirm the data is captured every minute and aggregated on a daily, monthly and yearly basis  <b>Conclusion:</b> The parameter is monitored in accordance with the approved revised PDD and applied methodology  <input type="checkbox"/> In this context the following findings have been raised:		OK	OK
<b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b>	/MR/ /QA1/	<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	OK	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
<p><i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i></p> <p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p> <p><i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>	/ER6/ /FRD2/ /IM01/	<input type="checkbox"/> For details regarding the accuracy and calibration details please refer to Appendix 6		
		<input type="checkbox"/> No delayed calibration has occurred		
		<input checked="" type="checkbox"/> As per the initial assessment the monitored value is deemed to be correct.		
		<input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.		
		<input type="checkbox"/> Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY		
		<input type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
		<input type="checkbox"/> The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input type="checkbox"/> The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input type="checkbox"/> The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input type="checkbox"/> The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals  <input type="checkbox"/> The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input type="checkbox"/> In this context the following findings have been raised:		

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
		<input type="checkbox"/>  <input type="checkbox"/>			
<b>8. <math>V_{t,wb}</math> (<math>LFG_{flare,Flare\ No.2,y}</math>, <math>LFG_{electricity,GSS1,y}</math>, <math>LFG_{electricity,GSS2,y}</math>, <math>LFG_{electricity,GSSF1,y}</math>)</b>			<b>Description: Volumetric flow of the gaseous stream in time interval t on a wet basis</b>		
<p><b>a) Measurement / Determination method (VVS, §§ 363-367)</b>  Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</p>	/ MR / / PDD1 / / ER1 / / ACM1 / / E4 / / E5 / / CF15 / / CF24 / / CF23 / / CF33 / / CF43 / / DML1 - DML5 /	<p><i>Description:</i></p> <p>This parameter measures the amount of landfill gas combusted by the 4 gas engines and 1 flare system.</p> <p>An independent flow meter Flare No.2, (<math>FT2_{Flare\ No.2}</math>), GSS1 (<math>FT3_{GSS1}</math>), GSS2 (<math>FT3_{GSS2}</math>), and GSS F1 (<math>FT3_{GSSF1}</math>) to measure the amount of LFG combusted by each of 4 gas engines and the flare.</p> <p>The data is measure continuously, captured every 1 minute and recorded in the DCS.</p> <p><b>GSS1 Engine 2 &amp; 3:</b></p> <p>FT3 – Due to delay in calibration on 11/10/2018, the maximum permissible error of <math>\pm 0.5\%</math> which is the equipment accuracy error is applied to data for period 07/06/2018 to 10/10/2018 as a conservative approach</p> <p><b>GSS2 Engine 4:</b></p> <p>FT3 - Due to delay in calibration on 10/12/2018, the maximum permissible error of <math>\pm 2.7\%</math> which is the equipment accuracy error is applied to data for period 01/01/2018 – 09/12/2018 as a conservative approach.</p> <p><i>Verifier's action:</i></p> <p>During the onsite visit, the captured data at the DCS, raw data sheet, daily manual log sheets were reviewed and crosschecked with the data applied in the ER spreadsheet.</p> <p>The MPE applied to the data for gas engine no. 2, 3 and 4 is crosschecked with the calibration reports and ER spreadsheet.</p> <p>A daily reading is read and recorded.</p>		CAR E.7-3	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.																
		<p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved revised PDD</p> <table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>In this context the following findings have been raised:</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>CAR E.7-3</td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> </table>	<input checked="" type="checkbox"/>	In this context the following findings have been raised:	<input checked="" type="checkbox"/>	CAR E.7-3	<input type="checkbox"/>													
<input checked="" type="checkbox"/>	In this context the following findings have been raised:																			
<input checked="" type="checkbox"/>	CAR E.7-3																			
<input type="checkbox"/>																				
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b></p> <p><i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i></p> <p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p> <p><i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>	<p>/MR/ /PDD1/ /ER1/ /ACM1/ /E4/ /E5/ /CF15/ /CF24/ /CF23/ /CF33/ /CF43/ /IM01/ /MM1/</p>	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>For details regarding the accuracy and calibration details please refer to Appendix 6</td></tr> <tr> <td><input type="checkbox"/></td><td>No delayed calibration has occurred</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>As per the initial assessment the monitored value is deemed to be correct.</td></tr> <tr> <td><input type="checkbox"/></td><td>Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration</td></tr> </table>	<input checked="" type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input checked="" type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	<input type="checkbox"/>	No delayed calibration has occurred	<input checked="" type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.	<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.	<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY	<input checked="" type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:	<input checked="" type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration	OK	OK
<input checked="" type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan																			
<input checked="" type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6																			
<input type="checkbox"/>	No delayed calibration has occurred																			
<input checked="" type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.																			
<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.																			
<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY																			
<input checked="" type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:																			
<input checked="" type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration																			

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
		<input type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input checked="" type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input checked="" type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		
		<input checked="" type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input type="checkbox"/>	In this context the following findings have been raised:		
		<input type="checkbox"/>			
		<input type="checkbox"/>			
<b>9. <math>V_{CH4,m,db}</math> (<math>W_{CH4,Flare\ No.2,y}</math>, <math>W_{CH4,GSS1,y}</math>, <math>W_{CH4,GSS2,y}</math>, <math>W_{CH4,GSSF1,y}</math>)</b>		<b>Description: Volumetric fraction of greenhouse gas i in a time interval t on a dry basis</b>			
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b> Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.	/MR/ /PDD1/ /ACM1/ /ER1/ /CF16/ /CF24/ /CF26/ /CF34/ /CF44/ /ER12/ /E6/	<b>Description:</b> This parameter monitors the fraction of methane for Flare No. 2, GSS1, GSS2 and GSSF1 continuously by an on-line gas analyser. The fraction of methane is measured in dry basis. The data is recorded in the DCS every minute. <b>Flare 2:</b> A delay in calibration on 04/06/2018, the maximum permissible error of 2% which is the equipment accuracy error is applied to data for period 05/01/2018 to 03/06/2018 as a conservative approach. <b>GSS2:</b> A delay in calibration on 11/10/2018 the maximum permissible error of $\pm 2.0\%$ which is the equipment accuracy error is applied to data for period 13/09/2018 to 10/10/2018 as a conservative approach		CAR E.7-4 CAR E.8-2 CAR E.8-3	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
	/E19/	<p><b>GSSF1:</b></p> <p>A delay in calibration on 06/10/2018 the maximum permissible error of <math>\pm 2.0\%</math> which is the equipment accuracy error is applied to the data for period 13/09/2018 to 06/10/2018 as a conservative approach.</p> <p>The online analyser was malfunctioned on 07/10/2018. According to approved PDD version 20.5, page 76, in case of temporary situation such as the installed CH<sub>4</sub> gas analyser malfunctioned or giving unrepresentative results due to data logging problem, the V<sub>CH<sub>4</sub></sub> shall be measured manually with portable gas analyser, as conservative approach, the lower bound of the 95% Confidence Interval will be applied as per guideline. As a result, the CH<sub>4</sub> was recorded using portable analyser during the period from 07/10/2018 to 31/12/2018. The 95% CI is conduct to the measured data and applied in the calculation.</p> <p>With the delay in calibration for portable analyser on 25/10/2018, the maximum permissible error of <math>\pm 1.5\%</math> which is the equipment accuracy error is applied to data for period 07/10/2018 to 24/10/2018 as a conservative approach.</p> <p><i>Verifier's action:</i></p> <p>According to the approved revised PDD, the fraction is measured in wet basis.</p> <p>The ER spreadsheet is reviewed to verify the MPE applied for Flare 2, GSS2 and GSSF1 data for the affected period.</p> <p>The calibration reports were verified to crosscheck for any calibration errors found and MPE applied is based on the instrument accuracy.</p> <p>The 95% CI applied in ER calculation during the period the portable analyser is used to measure CH<sub>4</sub> is the lower bound of the results of 58.8%. The MPE is of 1.5% is applied to the 95%CI results to have a lower value of 57.92% is applied in the period of the delay in calculation.</p> <p><i>Conclusion:</i></p>		



Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
		<div>The parameter is monitored in accordance with the approved revised PDD and applied methodology</div> <div> <input checked="" type="checkbox"/> In this context the following findings have been raised: <div> <input checked="" type="checkbox"/> CAR E.7-4, CAR E.8-2, CAR E.8-3 <input type="checkbox"/> </div> </div>		
<b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b> <i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i> <i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i> <i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i>	/MR/ /PDD1/ /ACM1/ /ER1/ /CF16/ /CF24/ /CF26/ /CF34/ /CF44/ /E6/ /E19/ /IM01/ /MM1/	<div> <input checked="" type="checkbox"/> It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan </div> <div> <input checked="" type="checkbox"/> For details regarding the accuracy and calibration details please refer to Appendix 6 </div> <div> <input type="checkbox"/> No delayed calibration has occurred </div> <div> <input type="checkbox"/> As per the initial assessment the monitored value is deemed to be correct. </div> <div> <input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period. </div> <div> <input checked="" type="checkbox"/> Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: Refer appendix for details  End date of delay: Refer appendix for details </div> <div> <input checked="" type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the: <div> <input checked="" type="checkbox"/> The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration <input checked="" type="checkbox"/> The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument </div> </div>	CAR <del>E.7-4</del>	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)			Draft Concl.	Final Concl.
			<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
			<input checked="" type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		
			<input checked="" type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input checked="" type="checkbox"/>	In this context the following findings have been raised:			
			<input checked="" type="checkbox"/>	CAR E.7-4		
			<input type="checkbox"/>			
<b>10. T<sub>t</sub> (T<sub>TT1,F2</sub>, T<sub>TT1,GSS1</sub>, T<sub>TT1,GSS2</sub>, T<sub>TT1,GSSF1</sub>)</b>		<b>Description: Temperature of the gaseous stream in time interval t</b>				
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b> Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.	/MR/ /PDD1/ /ACM1/ /TMF/ /ER2-ER4/ /ER9-ER11/ /DML1-DML5/ /CF11/ /CF21/	Description: This parameter measures the LFG temperature for Flare 2, GSS1, GSS2 and GSSF1. The temperature is measured continuously measured by an integrated temperature transmitter with a sensor to capture the data. The data is continuously captured by the temperature sensor / transmitter. The measured data will be converted to normalise value that does not require further conversion at the data logger and DCS. The captured data is recorded and stored at the DCS for further processing. The temperature of LFG at Flare 2, GSS1, GSS2 and GSSF1 has temperature exceeds 60°C several minutes during the monitoring period. The PP has applied Option A and Option B formula to re-calculate the flow rate to a lower value for conservativeness.			OK	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
	/CF31/	<p>Flare 2: Due to delay in calibration on 11/10/2018, the maximum permissible error of <math>\pm 0.5\%</math> which is the equipment accuracy error is applied to the data for period 13/09/2018 to 10/10/2018 as a conservative approach. The impact of applying this error to the flow normalisation is negligible.</p> <p>GSS1: Due to delay in calibration on 11/10/2018, the maximum permissible error of <math>\pm 1\%</math> which is the equipment accuracy error is applied to data for period 13/09/2018 to 10/10/2018 as a conservative approach. The impact of applying this error to the flow normalisation is negligible.</p> <p>GSS2: Due to delay in calibration on 04.06.2018, the maximum permissible error of <math>\pm 0.2\%</math> which is the equipment accuracy error is applied to the data for period 05/01/2018 to 03/06/2018 as a conservative approach. The impact of applying this error to the flow normalisation is negligible.</p> <p><i>Verifier's action:</i></p> <p>The ER spreadsheet was reviewed to verify MPE is applied to data for the affected periods.</p> <p>The calibration reports were checked there is no error during calibration. The instruments specification is crosschecked for accuracy correctness.</p> <p>A manual reading is conducted once daily to crosscheck instrument is operating.</p> <p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved PDD and applied methodology</p>		
	/CF41/			
	/FRD2/			
	/GSS1RD			
	/			
/GSS2RD				
/				
/GSSF!R				
D/				

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
<b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b> <i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i> <i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i> <i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i>	/MR/	<input checked="" type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	OK	OK
	/PDD1/	<input checked="" type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6		
	/ACM1/	<input checked="" type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6		
	/TMF/	<input type="checkbox"/>	No delayed calibration has occurred		
	/ER2-ER4/	<input type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.		
	/ER9-ER11/	<input checked="" type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.		
	/DML1-DML5/	<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: Refer Appendix 6 for details End date of delay: Refer Appendix 6 for details		
	/CF11/	<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: Refer Appendix 6 for details End date of delay: Refer Appendix 6 for details		
	/CF21/	<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: Refer Appendix 6 for details End date of delay: Refer Appendix 6 for details		
	/CF31/	<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: Refer Appendix 6 for details End date of delay: Refer Appendix 6 for details		
	/CF41/	<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period: Start date of delay: Refer Appendix 6 for details End date of delay: Refer Appendix 6 for details		
	/IM01/	<input checked="" type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
	/MM1/	<input checked="" type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input checked="" type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input checked="" type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
		<div> <input checked="" type="checkbox"/> The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration. </div> <div> <input type="checkbox"/> In this context the following findings have been raised: <div> <input type="checkbox"/> </div> <div> <input type="checkbox"/> </div> </div>		
<b>11. P<sub>t</sub> (P<sub>PT2,F2</sub>, P<sub>PT2,GSS1</sub>, P<sub>PT2,GSS2</sub>, P<sub>PT2,GSSF1</sub>)</b>		<b>Description: Pressure of the gaseous stream in time interval t</b>		
<p><b>a) Measurement / Determination method (VVS, §§ 363-367)</b>  Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</p>	/ MR / / PDD1 / / ACM1 / / ER1 / / ER3-ER5 / / CF13 / / CF22 / / CF32 / / CF42 / / DML1-DML5 / / FRD2 / / GSS1RD / / GSS2RD / / GSSFIR D /	<p><i>Description:</i></p> <p>This parameter measures the pressure of the LFG at Flare 2, GSS1, GSS2 and GSSF1.</p> <p>The measurement is continuously by an integrated pressure transmitter with a sensor to capture the data.</p> <p>The measured data will be converted to normalise value that does not require further conversion at the data logger and DCS.</p> <p>Flare 2:</p> <p>Due to delay in calibration 11/10/2018, the maximum permissible error of ±0.25% which is the equipment accuracy error is applied to the data for period 13/09/2018 to 10/10/2018 as a conservative approach. The impact of applying this error to the flow normalisation is negligible.</p> <p>GSS1:</p> <p>Due to delay in calibration on 11/10/2018, the maximum permissible error of ±0.25% which is the equipment accuracy error is applied to the data for period 13/09/2018 to 10/10/2018 as a conservative approach. The impact of applying this error to the flow normalisation is negligible.</p> <p>GSS2:</p> <p>Due to delay in calibration 04/06/2018 the maximum permissible error of ±0.4% which is the equipment accuracy error is applied to the data for period 05/01/2018 to 03/06/2018 as a conservative</p>	OK	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.								
		<p>approach. The impact of applying this error to the flow normalisation is negligible.</p> <p>GSSF1:</p> <p>Due to delay in calibration on 04/06/2018, the maximum permissible error of <math>\pm 0.25\%</math> which is the equipment accuracy error is applied to the data for period 05/01/2018 to 03/06/2018 as a conservative approach. The impact of applying this error to the flow normalisation is negligible.</p> <p><i>Verifier's action:</i></p> <p>The raw data was reviewed and crosschecked with ER spreadsheet during onsite visit for consistency and MPE applied to the data for the affected period was crosschecked with calibration reports and instrument accuracy error for correctness.</p> <p>A manual reading is conducted once daily.</p> <p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved revised PDD and applied methodology</p> <table border="1"> <tr> <td><input type="checkbox"/></td><td>In this context the following findings have been raised:</td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> </table>	<input type="checkbox"/>	In this context the following findings have been raised:	<input type="checkbox"/>		<input type="checkbox"/>					
<input type="checkbox"/>	In this context the following findings have been raised:											
<input type="checkbox"/>												
<input type="checkbox"/>												
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b></p> <p><i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i></p>	<p>/MR/ /PDD1/ /ACM1/ /ER1/ /ER3-ER5/ /CF13/</p>	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>For details regarding the accuracy and calibration details please refer to Appendix 6</td></tr> <tr> <td><input type="checkbox"/></td><td>No delayed calibration has occurred</td></tr> <tr> <td><input type="checkbox"/></td><td>As per the initial assessment the monitored value is deemed to be correct.</td></tr> </table>	<input checked="" type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input checked="" type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	<input type="checkbox"/>	No delayed calibration has occurred	<input type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.	OK	OK
<input checked="" type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan											
<input checked="" type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6											
<input type="checkbox"/>	No delayed calibration has occurred											
<input type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.											

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
<p>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</p> <p>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</p>	/CF22/ /CF32/ /CF42/ /DML1- DML5/ /FRD2/ /GSS1RD / /GSS2RD / /GSSF!R D/	<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.		
	<input checked="" type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: Refer Appendix 6 below for details End date of delay: Refer Appendix 6 below for details			
	<input checked="" type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:			
	<input checked="" type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration			
	<input type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument			
	<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument			
	<input checked="" type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals			
	<input checked="" type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.			
	<input type="checkbox"/>	In this context the following findings have been raised:			
		<input type="checkbox"/>			
	<input type="checkbox"/>				
12. $P_{H_2O,t,Sat}$		Description: Saturation pressure of $H_2O$ at temperature $T_t$ in time interval $t$			

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b> Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.	/MR/ /PDD1/ /TMF/	<i>Description:</i> The data is derived from the Tool to determine the mass flow of a greenhouse gas in a gaseous stream version 3.0. The data to calculate the absolute pressure by adding the ambient pressure at normal conditions to the gauge pressure. No measurement is required.	OK	OK
		<i>Verifier's action:</i> The data applied is in the MR is crosscheck with the tool for correctness.		
		<i>Conclusion:</i> The parameter is monitored in accordance with the approved PDD and applied methodology		
		<input type="checkbox"/> In this context the following findings have been raised:		
		<input type="checkbox"/> <input type="checkbox"/>		
<b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b> In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs. Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.	/MR/ /PDD1/ /TMF/ /MM1/ /IM01/	<input type="checkbox"/> It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	OK	OK
		<input type="checkbox"/> For details regarding the accuracy and calibration details please refer to Appendix 6		
		<input type="checkbox"/> No delayed calibration has occurred		
		<input checked="" type="checkbox"/> As per the initial assessment the monitored value is deemed to be correct.		
		<input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.		



Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.		<input type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: DD/MM/YYYY  End date of delay: DD/MM/YYYY		
		<input type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
		<input type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		
		<input type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input type="checkbox"/>	In this context the following findings have been raised:		
		<input type="checkbox"/>			
		<input type="checkbox"/>			
13. $V_{CO_2,t,db}$		<b>Description: Volumetric fraction of greenhouse gas CO<sub>2</sub> in the gaseous stream in time interval <math>t</math> on a dry basis</b>			
a) <b>Measurement / Determination method</b> (VVS, §§ 363-367)	/MR/ /PDD1/	Description: The parameter measured manually using a portable gas analyser on a weekly basis.		OK	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.										
Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.	/O3/	<p>A minimum sampling frequency of one sample per week. The collected data is to calculate to obtain the lower bound of 95% confidence interval.</p> <p>The data is for reporting purposes and not applied in ER calculations.</p> <p><i>Verifier's action:</i></p> <p>The manual measured data using the portable gas analyser is review during onsite. The calculation to obtain the lower bound 95% confidence interval level is verified for correctness for the % stated in the MR.</p> <p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved revised PDD and applied methodology</p> <table border="1"> <tr> <td><input type="checkbox"/></td><td>In this context the following findings have been raised:</td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> </table>	<input type="checkbox"/>	In this context the following findings have been raised:	<input type="checkbox"/>		<input type="checkbox"/>							
<input type="checkbox"/>	In this context the following findings have been raised:													
<input type="checkbox"/>														
<input type="checkbox"/>														
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b></p> <p>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</p> <p>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</p>	<p>/MR/</p> <p>/PDD1/</p> <p>/O3/</p> <p>/MM1/</p> <p>/IM01/</p>	<table border="1"> <tr> <td><input type="checkbox"/></td><td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td></tr> <tr> <td><input type="checkbox"/></td><td>For details regarding the accuracy and calibration details please refer to Appendix 6</td></tr> <tr> <td><input type="checkbox"/></td><td>No delayed calibration has occurred</td></tr> <tr> <td><input type="checkbox"/></td><td>As per the initial assessment the monitored value is deemed to be correct.</td></tr> <tr> <td><input type="checkbox"/></td><td>Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.</td></tr> </table>	<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	<input type="checkbox"/>	No delayed calibration has occurred	<input type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.	<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.	OK	OK
<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan													
<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6													
<input type="checkbox"/>	No delayed calibration has occurred													
<input type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.													
<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.													

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)		Draft Concl.	Final Concl.
Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.		<input type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: DD/MM/YYYY  End date of delay: DD/MM/YYYY		
		<input type="checkbox"/>	A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
		<input type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		
		<input type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input type="checkbox"/>	In this context the following findings have been raised:		
		<input type="checkbox"/>			
<input type="checkbox"/>					
14. $V_{O_2,t,db}$		Description: Volumetric fraction of greenhouse gas $O_2$ in the gaseous stream in time interval $t$ on a dry basis			
a) Measurement / Determination method (VVS, §§ 363-367)	/MR/ /PDD1/	Description: The parameter is measured continuously by an online gas analyser.		OK	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.												
Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the 28/08/2016 to 0 measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.	/O4/	<p>The data stated in MR is an average of the aggregated data for each month.</p> <p>The data is for reporting purposes and not applied in ER calculations.</p> <p><i>Verifier's action:</i></p> <p>The measured data is review. The calculation for the average data stated in MR is crosscheck for correctness.</p> <p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved revised PDD and applied methodology</p> <table border="1"> <tr> <td><input type="checkbox"/></td><td>In this context the following findings have been raised:</td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> </table>	<input type="checkbox"/>	In this context the following findings have been raised:	<input type="checkbox"/>		<input type="checkbox"/>									
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<input type="checkbox"/>																
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<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b></p> <p>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</p> <p>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</p> <p>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</p>	/MR/ /PDD1/ /O4/ /MM1/ /IM01/	<table border="1"> <tr> <td><input type="checkbox"/></td><td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td></tr> <tr> <td><input type="checkbox"/></td><td>For details regarding the accuracy and calibration details please refer to Appendix 6</td></tr> <tr> <td><input type="checkbox"/></td><td>No delayed calibration has occurred</td></tr> <tr> <td><input type="checkbox"/></td><td>As per the initial assessment the monitored value is deemed to be correct.</td></tr> <tr> <td><input type="checkbox"/></td><td>Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.</td></tr> <tr> <td><input type="checkbox"/></td><td>Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: DD/MM/YYYY</td></tr> </table>	<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	<input type="checkbox"/>	No delayed calibration has occurred	<input type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.	<input type="checkbox"/>	Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.	<input type="checkbox"/>	Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: DD/MM/YYYY	OK	OK
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Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
		<div>End date of delay: DD/MM/YYYY</div> <div> <input type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:           <div> <input type="checkbox"/> The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration             <input type="checkbox"/> The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument             <input type="checkbox"/> The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument             <input type="checkbox"/> The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals             <input type="checkbox"/> The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.           </div> </div> <div> <input type="checkbox"/> In this context the following findings have been raised:           <div> <input type="checkbox"/> <input type="checkbox"/> </div> </div>		
<b>15. Status of biogas destruction device</b>		<b>Description: Operational status of biogas destruction devices</b>		
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b> Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment	/MR/ /PDD1/ /ER1/ SDR1- SDR5/	<b>Description:</b> This parameter monitors the operation of the energy plant of the 4 gas engines and flare 2 operating hours. A run hour meter records the running hour for each of the gas engines. The reading is recorded daily by the responsible operator. The difference in start day and the end day of the month is the running hours for the month	OK	OK

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
<p><i>other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</i></p>	<p>/MS1-MS5/ /ER6/ /ER8/</p>	The operation of the flare system is measured continuously by a flame detector whenever the flare operates.		
		The data is capture in the DCS system.		
		<p><i>Verifier's action:</i></p> <p>The daily records were crosschecked with the shut downtime, maintenance and service and operation hour records.</p>		
		<p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved PDD and applied methodology</p>		
		<div> <input type="checkbox"/> In this context the following findings have been raised: <div> <input type="checkbox"/> <input type="checkbox"/> </div> </div>		
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b></p> <p><i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</i></p> <p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p> <p><i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>	<p>/MR/ /PDD1/ /ER1/ /MM1/ /IM01/</p>	<input type="checkbox"/> It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	OK	OK
		<input type="checkbox"/> For details regarding the accuracy and calibration details please refer to Appendix 6		
		<input type="checkbox"/> No delayed calibration has occurred		
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		<input type="checkbox"/> Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY		

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		<input type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the: <table border="1"> <tr> <td><input type="checkbox"/></td><td>The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration</td></tr> <tr> <td><input type="checkbox"/></td><td>The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument</td></tr> <tr> <td><input type="checkbox"/></td><td>The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument</td></tr> <tr> <td><input type="checkbox"/></td><td>The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals</td></tr> <tr> <td><input type="checkbox"/></td><td>The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.</td></tr> </table> <input type="checkbox"/> In this context the following findings have been raised: <table border="1"> <tr> <td><input type="checkbox"/></td><td></td></tr> <tr> <td><input type="checkbox"/></td><td></td></tr> </table>	<input type="checkbox"/>	The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration	<input type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument	<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument	<input type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals	<input type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.	<input type="checkbox"/>		<input type="checkbox"/>			
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<input type="checkbox"/>																		
<input type="checkbox"/>																		
<b>16. FC<sub>i,j,y</sub></b>		<b>Description: Quantity of fuel type i combusted in process j during the year y</b>																
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b> Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been	/MR/ /PDD1/ /ER1/ /O1/	<b>Description:</b> The parameter monitors the usage of diesel by the standby genset. A fuel meter is use to monitor the diesel consumption. The meter installed at the genset is part of engine management system therefore, no calibration is required. During this monitoring period, the amount fuel consumed is mainly for monthly testing of the genset.	OK	OK														

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.						
used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.		<p>According to the approved PDD, the usage of fuel is crosscheck with purchased quantities and usage stock change.</p> <p><i>Verifier's action:</i></p> <p>The monthly testing and fuel records were verified to crosscheck the monthly test run dates. The amount of fuel filled initially was verified with the invoice.</p> <p>During the onsite the fuel gauge was inspected that indicate the amount fuel left in the tank was approx. 459 liters based on the gauge meter.</p> <p>For this monitoring period the amount of diesel used for the monthly testing is 68 litres.</p> <p>For the calculation, the amount of diesel in litre is converted to t/y by multiplying with the density of diesel (kg/l).</p> <p>The data applied in the ER spreadsheet has been verified.</p> <p><i>Conclusion:</i></p> <p>The monitoring of the parameter is in accordance to the approved PDD</p> <table border="1"> <tr> <td><input type="checkbox"/></td> <td>In this context the following findings have been raised:</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table>	<input type="checkbox"/>	In this context the following findings have been raised:	<input type="checkbox"/>		<input type="checkbox"/>			
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<input type="checkbox"/>										
<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b></p> <p><i>In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions</i></p>	<p>/MR/ /PDD1/ /MM1/ /IM01/</p>	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td> </tr> <tr> <td><input type="checkbox"/></td> <td>For details regarding the accuracy and calibration details please refer to Appendix 6</td> </tr> <tr> <td><input type="checkbox"/></td> <td>No delayed calibration has occurred</td> </tr> </table>	<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	<input type="checkbox"/>	No delayed calibration has occurred	OK	OK
<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan									
<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6									
<input type="checkbox"/>	No delayed calibration has occurred									



Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
<i>theoretically possible have been made for calculating ERs. Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance. Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i>		<input checked="" type="checkbox"/> As per the initial assessment the monitored value is deemed to be correct.		
		<input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.		
		<input type="checkbox"/> Based on calibration certificates checked a delay in calibration has been identified for the following period:  Start date of delay: DD/MM/YYYY End date of delay: DD/MM/YYYY		
		<input type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:		
		<input type="checkbox"/> The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration		
		<input type="checkbox"/> The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument		
		<input type="checkbox"/> The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument		
		<input type="checkbox"/> The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals		
		<input type="checkbox"/> The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.		
		<input type="checkbox"/> In this context the following findings have been raised: <table border="1"> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table>		
<input type="checkbox"/>				
<input type="checkbox"/>				

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.								
<b>17. EF<sub>CO2,i,y</sub></b>		<b>Description: Weighted average CO<sub>2</sub> emission factor of fuel type i in year</b>										
<p><b>a) Measurement / Determination method (VVS, §§ 363-367)</b>  Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.</p>	/ MR / / IPCC / / PDD1 / / ER1 /	<p><i>Description:</i></p> <p>The parameter monitors the weighted average CO<sub>2</sub> emission factor of fuel type i in year y.</p> <p>The fuel used by the genset is diesel.</p> <p>There is no instrument used to measure the data</p> <p>The value is based on IPCC default value or from fuel supplier, therefore no calibration required</p> <hr/> <p><i>Verifier's action:</i></p> <p>The value applied by the project owner is the default value from IPCC since the data was not available from the fuel supplier.</p> <p>Therefore, is applied appropriately</p> <hr/> <p><i>Conclusion:</i></p> <p>The parameter is monitored in accordance with the approved PDD.</p> <table border="1"> <tr> <td><input type="checkbox"/></td> <td>In this context the following findings have been raised:</td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table>	<input type="checkbox"/>	In this context the following findings have been raised:	<input type="checkbox"/>		<input type="checkbox"/>		OK	OK		
<input type="checkbox"/>	In this context the following findings have been raised:											
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<p><b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b>  In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.</p>	/ MR / / MM1 / / ER1 / / IM01 /	<table border="1"> <tr> <td><input type="checkbox"/></td> <td>It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan</td> </tr> <tr> <td><input type="checkbox"/></td> <td>For details regarding the accuracy and calibration details please refer to Appendix 6</td> </tr> <tr> <td><input type="checkbox"/></td> <td>No delayed calibration has occurred</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>As per the initial assessment the monitored value is deemed to be correct.</td> </tr> </table>	<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6	<input type="checkbox"/>	No delayed calibration has occurred	<input checked="" type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.	OK	OK
<input type="checkbox"/>	It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan											
<input type="checkbox"/>	For details regarding the accuracy and calibration details please refer to Appendix 6											
<input type="checkbox"/>	No delayed calibration has occurred											
<input checked="" type="checkbox"/>	As per the initial assessment the monitored value is deemed to be correct.											

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.	
<p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p> <p><i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>		<input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.			
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		<input type="checkbox"/> A delay in calibration has been identified, the PP applied related actions and therefore the DOE can confirm that the:			<input type="checkbox"/> The maximum permissible error of the instrument has been applied to the values during the period between scheduled date of calibration and the actual date of calibration
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					<input type="checkbox"/> The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.
		<input type="checkbox"/> In this context the following findings have been raised:			<input type="checkbox"/>
					<input type="checkbox"/>
18. $NCV_{i,y}$		Description: Weighted average net calorific value of fuel type i in year y			

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.
<b>a) Measurement / Determination method (VVS, §§ 363-367)</b> Describe how the monitoring parameter was measured / determined. Focus primarily on the original data level (ODL) but also describe the applied data aggregation trails (from ODL to data aggregation level zero (DAL0)). Check if relevant equipment has been exchanged and if in cases of failures / downtimes of standard equipment other measurement / determination methods have been used. Furthermore, verify the frequency of measurements as per the requirements. Assess whether the measurement / determination method is in line with the registered monitoring plan of the PDD and the applied methodology.	/MR/ /PDD1/ /IPCC/ /ER1/	<b>Description:</b> The parameter monitors the weighted average net calorific value of fuel type i in year y for the fuel used by the standby diesel genset. There is no instrument used to measure the data. The value is based on IPCC default value or from fuel supplier, therefore no calibration required	OK	OK
		<b>Verifier's action:</b> During this monitoring period, the project owner has applied the default value derived from Table 1.2, Vol. 2 of the 2006 IPCC Guidelines since there is no data available from the fuel supplier. The ER calculation is crosscheck for correctness.		
		<b>Conclusion:</b> The monitoring of the parameter is in accordance to the approved PDD.		
		<input type="checkbox"/> In this context the following findings have been raised:		
		<input type="checkbox"/> <input type="checkbox"/>		
<b>b) Accuracy, correctness and QA/QC Procedure (VVS, §§ 368-374)</b> In case of measured (or estimated) values, check whether the accuracy of equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan or if significant inaccuracies occur; in this case, make sure that the most conservative assumptions theoretically possible have been made for calculating ERs.	/MR/ /PDD1/ /MM1/ /IM01/	<input type="checkbox"/> It is confirmed that the accuracy of the equipment used for monitoring is controlled and calibrated in accordance with the monitoring plan	OK	OK
		<input type="checkbox"/> For details regarding the accuracy and calibration details please refer to Appendix 6		
		<input type="checkbox"/> No delayed calibration has occurred		
		<input checked="" type="checkbox"/> As per the initial assessment the monitored value is deemed to be correct.		

Checklist Item (incl. guidance for the verification team)	Reference	Verification Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.								
<p><i>Describe whether all applicable QA/QC procedures are met. Assess further if the calibration of the monitoring equipment has been carried out in line with the latest EB guidance.</i></p> <p><i>Include calibration dates and information in validity of the installed monitoring equipment in the table in Appendix 6.</i></p>		<input type="checkbox"/> Based on calibration certificates checked it can be confirmed that the monitoring equipment has been duly calibrated for this entire monitoring period.										
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<input type="checkbox"/>	The result of the delayed calibration did not identify an error beyond the maximum permissible error of the instrument											
<input type="checkbox"/>	The error as identified during the delayed calibration has been applied as the error is beyond the maximum permissible error of the instrument											
<input type="checkbox"/>	The error has been applied in a conservative manner, such that the adjusted measured values of the delayed calibration shall result in fewer claimed GHG emission reductions or net anthropogenic GHG removals											
<input type="checkbox"/>	The error has been applied all measured values taken during the period between the scheduled date of calibration and the actual date of calibration.											
<input type="checkbox"/> In this context the following findings have been raised: <table border="1"> <tr> <td><input type="checkbox"/></td> <td></td> </tr> <tr> <td><input type="checkbox"/></td> <td></td> </tr> </table>			<input type="checkbox"/>		<input type="checkbox"/>							
<input type="checkbox"/>												
<input type="checkbox"/>												

## Appendix 6. Calibration dates and validity of installed monitoring equipment

**Table A-6:** Periodic Verification Checklist – Calibration details

Monitoring equipment	Related monitoring parameter as per applicable registered monitoring plan	Serial number	Type	Accuracy or accuracy class	Previous calibration date	Current Calibration date(s)	Validity of calibration	Delay in calibration : yes/no	Period of delayed calibration
Power Meter	EG <sub>PJ,y</sub> : EL4 (GSSF1)	210225256	EDMI	Class 0.5s	06/01/2017		24 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: To:
	EG <sub>PJ,y</sub> : EL1 Back up	96HO+	IME Nemo	Class 0.5S	03/04/2017	25/01/2018	36 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 24/01/2018
	EG <sub>PJ,y</sub> : EL5 (GSSF1 GE1 to Grid)	53099690 (Main)	ltron	Class 0.20	01/04/2011	-	5 years	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 31/12/2018
		53099691 (Check)			01/04/2011	-	5 years	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 31/12/2018
	EG <sub>PJ,y</sub> : EL9 – GSS1 generation (GE2)	211516862	EDMI	Class 0.5s (±0.5%)	13/05/2015	25/01/2018	24 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 24/01/2018
	EG <sub>PJ,y</sub> : EL10 – GSS1 generation (GE3)	211516863	EDMI	Class 0.5s (±0.5%)	13/05/2015	25/10/2018	24 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 24/01/2018
	EG <sub>PJ,y</sub> : EL11 – GSS1 GE2 & GE3 to grid	908705152 (Main)	EDMI	Class 0.5s (±0.5%)	06/12/2009	-	5 years	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 31/12/2018

Monitoring equipment	Related monitoring parameter as per applicable registered monitoring plan	Serial number	Type	Accuracy or accuracy class	Previous calibration date	Current Calibration date(s)	Validity of calibration	Delay in calibration : yes/no	Period of delayed calibration
		908705154 (Check)			06/12/2009	-	5 years	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 31/12/2018
	EG <sub>PJ,y</sub> : EL12 – GSS2 GE4 Generation	213545834	EDMI	Class 0.5s (±0.5%)	04/02/2016	08/08/2018	24 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 04/02/2018 To: 07/08/2018
	EG <sub>PJ,y</sub> : EL13 – GSS2 GE4 to grid	81480576 (Main)	ltron	Class 0.2s (±0.2%)	14/02/2016	-	5 years	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
		81480578 (Check)			14/02/2016	-	5 years	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
Power Meter	EG <sub>EC,y</sub> : EL6 (import)	2661930098	IME NEMO 96HDL	Class 1 ±1%	23/07/2014	25/01/2018	36 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 24/01/2018
Temperature Transmitter	TEG <sub>m</sub> : Flare 2	B838901937	Honeywell	± 0.5% of span	13/09/2017	11/10/2018	12 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 13/09/2018 To: 10/10/2018
Flow Meter	V <sub>t,wb</sub> – FT1 - FT119 (Flare 2)	4972946 / FT119 (8102101)	Rosemount / Kingsway	± 0.5%	04/06/2018	-	24 months	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
	V <sub>t,wb</sub> – FT2 – FT141 (Flare 2)	5476626 / F141 10031702	Rosemount / Kingsway	± 0.5%	13/09/2017	-	24 months	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
	V <sub>t,wb</sub> – FT2 – FT140 (Flare 2)	5476627 / FT140 10031701	Rosemount / Kingsway	± 0.5%	13/09/2017	04/06/2018	24 months	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
	V <sub>t,wb</sub> – FT3 (GSS1 – GE2 & G3)	5988022	Rosemount	± 0.5%	07/06/2016	11/10/2018	24 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 07/06/2018

Monitoring equipment	Related monitoring parameter as per applicable registered monitoring plan	Serial number	Type	Accuracy or accuracy class	Previous calibration date	Current Calibration date(s)	Validity of calibration	Delay in calibration : yes/no	Period of delayed calibration
									To: 10/10/2018
	V <sub>t,wb</sub> – FT3 (GSS2 – GE4)	C150327	Combimass Binder	± 2.5% of reading + 0.2% of full scale	23/06/2015	10/12/2018	24 months	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 01/01/2018 To: 09/12/2018
	V <sub>t,wb</sub> – FT3 (GSSF1 – GE1)	02768007 / FT161 (11011001)	Rosemount	±0.5%	05/01/2017	-	24 months	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
Gas Analyser	V <sub>CH4,m,db</sub> – Flare 2	31453	Guardian Plus (97460)	± 2% of full scale	05/01/2017	04/06/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 05/01/2018 To: 03/06/2018
	V <sub>CH4,m,db</sub> – GSS1	8154	Edinburg Guardian NG	±2% of full scale	09/11/2017	-	Annually	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
		34140	Guardian Plus (97460)		11/10/2018			<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
		14464	Edinburg Guardian NG		27/12/2018			<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	From: To:
	V <sub>CH4,m,db</sub> – GSS2	33542	Guardian Plus (97460)	±2% of full scale	13/09/2017	11/10/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 13/09/2018 To: 10/10/2018
	V <sub>CH4,m,db</sub> – GSSF1	33436	Guardian Plus	±2% of full scale	13/09/2017	-	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 13/09/2018 To: 06/10/2018
		G505823	Geotech Portable Analyser	± 1.5%	25/10/2018	-	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 07/10/2018 To: 24/10/2018



Monitoring equipment	Related monitoring parameter as per applicable registered monitoring plan	Serial number	Type	Accuracy or accuracy class	Previous calibration date	Current Calibration date(s)	Validity of calibration	Delay in calibration : yes/no	Period of delayed calibration
Temperature Transmitter	Tt - T <sub>TT1,F2</sub> , (Flare 2)	B839917437	Honeywell	±0.5% of span	13/09/2017	11/10/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 13/09/2018 To: 10/10/2018
	Tt - T <sub>TT1,GSS1</sub> (GSS1 GE2 & GE3)	B527143837	Honeywell	±1.0%	13/09/2017	11/10/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 13/09/2018 To: 10/10/2018
	Tt - T <sub>TT1,GSS2</sub> (GSS2 GE4)	ATT2100415 1000	Autrol	± 0.1%	05/01/2017	04/06/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 05/01/2018 To: 03/06/2018
	Tt - T <sub>TT1,GSSF1</sub> (GSSF1 GE1)	100944768	PR Electronics	< ± 0.05% of span	05/01/2017	04/06/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 05/01/2018 To: 03/06/2018
Pressure Transmitter	Pt - P <sub>PT2,F2</sub> (Flare 2)	5584784	Rosemount	±0.25%	13/09/2017	11/10/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 13/09/2018 To: 10/10/2018
	Pt - P <sub>PT2,GSS1</sub> (GSS1 GE2 & GE3)	5916057	Rosemount	±0.1%	13/09/2017	11/10/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 13/09/2018 To: 10/10/2018
	Pt - P <sub>PT2,GSS2</sub> (GSS 2 GE4)	APT3200-4150998	Autrol	± 0.075% of span	05/01/2017	04/06/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 05/01/2018 To: 03/06/2018
	Pt - P <sub>PT2, GSS F1</sub> (GSSF1 GE1)	02492864	Rosemount	±0.25%	05/01/2017	04/06/2018	Annually	<input type="checkbox"/> No <input checked="" type="checkbox"/> Yes	From: 05/01/2018

Monitoring equipment	Related monitoring parameter as per applicable registered monitoring plan	Serial number	Type	Accuracy or accuracy class	Previous calibration date	Current Calibration date(s)	Validity of calibration	Delay in calibration : yes/no	Period of delayed calibration
									To: 03/06/2018

Note:

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**Document information**

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.1	11 January 2018	Editorial revision to correct the numbering of appendices in the instructions.
02.0	31 October 2017	Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: project activities, verifying and certifying		