



Validation report form for post-registration changes for CDM project activities
(Version 01.0)

Complete this form in accordance with the "Attachment: Instructions for filling out the validation report form for post-registration changes for CDM project activities" at the end of this form.

VALIDATION REPORT ON POST-REGISTRATION CHANGES (PRCs)

Title and reference number of the project activity	LFG flaring project at Dubai, UAE
Process track	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report on PRCs	02
Completion date of the validation report on PRCs	23/08/2016
Type(s) of PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan to a registered project activity <input type="checkbox"/> Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline <input checked="" type="checkbox"/> Changes to the project design of a registered project activity <input type="checkbox"/> Types of changes specific to afforestation and reforestation project activities
Version number of PDD to which this report applies	8
Project participant(s)	Green Energy Solutions & Sustainability LLC Dubai Municipality First Climate (India) Private Limited
Host Party	United Arab Emirates
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	Sectoral Scope: 13 Applied Methodology: ACM0001 (version 12); "Flaring or use of landfill gas"
Name of DOE	Carbon Check (India) Private Ltd.
Name, position and signature of the approver of the validation report on PRCs	Amit Anand, Chief Executive Officer 

SECTION A. Executive summary

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Purpose, general description and location of the project activity:

The Project Participants, (Green Energy Solutions & Sustainability LLC and First Climate (India) Private Limited) have commissioned the DOE, Carbon Check (India) Private Ltd. (CC IPL) to perform an independent verification along with the validation of the post registration changes of the CDM Project Activity “LFG flaring project at Dubai, UAE” in UAE (hereafter referred to as “Project Activity”). The project activity involves installation of a landfill gas recovery and closed type flaring system at the Al-Quasis landfill in Dubai, UAE. The project activity has replaced the existing passive venting system of land fill gas pre-project with a closed type of flaring system. The purpose of the project activity is to destroy the methane gas emitted from landfill, by using the closed type flaring system before letting out into the atmosphere. The design change involves installation of a 1 MW LFG fired gas engine to meet the captive requirement of the auxiliary power of the project. No baseline emission claims are being made for the methane gas destructed in power generation. Also whole of the power generated (including with the LFG gen set and diesel generators) is considered under project emissions. This is a conservative approach.

Scope of validation:

This validation is an independent and objective review of the post registration changes in registered PDD. The scope of the validation of post registration changes is to determine whether there are proposed or actual changes to the project design of the registered CDM project activity. CC IPL also determined whether the description in the revised PDD submitted by project participants, which describe the nature and extent of the actual changes, accurately reflects the implementation, operation and monitoring of the modified project activity. The validation of post registration changes in the revised PDD were based on the following:

- (i) Approved methodology ACM0001, Version 12 /B02/ and the applied tools
- (ii) Revised PDD (in track change and clean mode) /5/
- (iii) CDM Validation and Verification Standard (Version 09) /B01a/
- (iv) CDM Project Standard (Version 09) and /B01b/
- (v) CDM Project Cycle Procedure (Version 09) /B01c/
- (vi) Relevant decisions, guidance and clarifications of the CMP and CDM EB

Validation process:

The validation process for post registration changes includes the following steps:

- a) Contract with project participants and appointment of validation team and technical review team
- b) Desk review of the revised PDD by validation team and planning of onsite visit
- c) On site visit and follow up interviews by the validation team
- d) Reporting and closure of findings (CARs/CLs/FARs) and preparation of validation report
- e) Independent technical review of the validation report
- f) Issuance of final validation report to contracted PP and submission to UNFCCC for approval of post registration changes as appropriate.

Conclusion:

Considering the validation of post registration changes has occurred during the verification and considering the proposed change falls under Appendix 1 of CDM PS Version 09.0, therefore, the design change is being submitted along with the issuance request for approval. The validation confirms that the implementation of the post registration changes is in line with the applied methodology and all other applicable tools and guidance.

This report is the combined assessment opinion for all the changes that are proposed in the PDD and request is submitted for approval by CDM EB along with issuance request.

SECTION B. Validation team, technical reviewer and approver

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B.1. Validation 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)	Validation findings
1.	Team Leader / Verifier / Validator / Technical Expert	IR	Agarwalla	Sanjay Kumar	CC IPL	X	X	X	X

B.2. Technical reviewer and approver of the validation report on PRCs

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	IR	Singh	Vikash Kumar	CC IPL
2.	Approver	IR	Anand	Amit	CC IPL

SECTION C. Means of validation

C.1. Desk review

>> List of all documents reviewed or referenced during the validation is provided in Appendix-3 below.

C.2. On-site inspection

Duration of on-site inspection: 05/06/2016 to 06/06/2016				
No.	Activity performed on-site	Site location	Date	Team member
1.	An assessment of the implementation and operation of the registered project activity as per the registered PDD	Al Quasis Landfill, Dubai, UAE	05/06/2016 to 06/06/2016	Sanjay Kumar Agarwalla
2.	A review of information flows for generating, aggregating and reporting the monitoring parameters	Al Quasis Landfill, Dubai, UAE	05/06/2016 to 06/06/2016	Sanjay Kumar Agarwalla
3.	Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PDD	Al Quasis Landfill, Dubai, UAE	05/06/2016 to 06/06/2016	Sanjay Kumar Agarwalla
4.	A cross check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources	Al Quasis Landfill, Dubai, UAE	05/06/2016 to 06/06/2016	Sanjay Kumar Agarwalla
5.	A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD and the selected methodology and corresponding tool(s), where applicable	Al Quasis Landfill, Dubai, UAE	05/06/2016 to 06/06/2016	Sanjay Kumar Agarwalla
6.	A review of calculations and assumptions made in determining the GHG data and emission reductions	Al Quasis Landfill, Dubai, UAE	05/06/2016 to 06/06/2016	Sanjay Kumar Agarwalla
7.	An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters	Al Quasis Landfill, Dubai, UAE	05/06/2016 to 06/06/2016	Sanjay Kumar Agarwalla

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Biswas	Subhendu	FCIPL	05/06/2016 to 06/06/2016	Project implementation and operation, monitoring procedure, data and information flow, CER calculation and completeness of monitoring report, QA/QC Procedures, Quality Assurance – Management and operating system	Sanjay Kumar Agarwalla
2.	Nouri	Anita	GESS	05/06/2016 to 06/06/2016	Project implementation and operation, monitoring procedure, data and information flow	Sanjay Kumar Agarwalla

3.	Nouri	Zakaria	GESS	05/06/2016 to 06/06/2016	Project implementation and operation, monitoring procedure, data and information flow	Sanjay Kumar Agarwalla
4.	Souin	Conner	GESS	05/06/2016 to 06/06/2016	Project implementation and operation, monitoring procedure, data and information flow	Sanjay Kumar Agarwalla
5.	Ahmed	Wasif	GESS	05/06/2016 to 06/06/2016	Project operation, monitoring procedure, data and information flow	Sanjay Kumar Agarwalla
6.	Najem Al-Awadhi	Mohammed Abdulaziz	Dubai Municipality	06/06/2016	Views on the operation of the project activity	Sanjay Kumar Agarwalla
7.	Mukherjee	Shivram	FCIPL	08-09/07/2016 (through skype)	CER calculation, Monitoring report and DVR resolution	

C.4. Clarification requests, corrective action requests and forward action requests raised

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	-	-	-
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline	-	-	-
Corrections	-	-	-
Changes to the start date of the crediting period	-	-	-
Inclusion of a monitoring plan to a registered project activity	-	-	-
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline	-	-	-
Changes to the project design of a registered project activity	-	01	-
Types of changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
Total	-	01	-

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	<p>The revised PDD has been submitted in both track change and clean versions /5/. valid PDD template version 07.0 (CDM-PDD-FORM) /B06/ available on the UNFCCC website has been used.</p> <p>Both registered and revised PDD were reviewed for the consistency of the information and it is confirmed that information transferred from previous template to new template is materially the same as in the registered PDD except the content of proposed PRC.</p>
Findings	-
Conclusion	The revised PDD applied the latest PDD template available and the information has been transferred to the new template is materially the same.

D.2. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.3. Corrections

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.4. Changes to the start date of the crediting period

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.5. Inclusion of a monitoring plan to a registered project activity

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.6. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

D.7. Changes to the project design of a registered project activity

Means of validation	The changes in the project design have been validated by document review, on site inspection visit, review of registered and revised PDD.
Findings	Instructions for completing the MR for section B.2.6 which states " <i>In cases where the change(s) and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, provide the approval date and reference number. Otherwise, provide the version number and the completion date of the revised PDD and DOE assessment opinion on the request for post-registration changes that is being submitted with this monitoring report</i> " has not been complied. Section 13.8.3.5 of the PS, version 09.0 may also be referred in this context. Also PP is requested to clarify the statement " <i>There has not been any change in the project design during this monitoring period</i> ", on page 9 of the published MR ¹ . Please refer to Appendix 4 below for the details of closure of the CAR.
Conclusion	The current project design involves changes compared to the project design in the registered project activity /5/. The project boundary now includes a 1MW gas based power generation plant /4/ which is used to operate the blowers and flares in the project activity. The captive power plant replaces the use of diesel based generators for consumption of electricity on-site. However, the existing DG sets are operated in case of emergency. PP is not claiming any baseline emissions for the destruction of methane gas used in power generation and also the whole power generated by the project activity (including DG sets and the land fill gas engine) is included under project emissions. This is a conservative approach and hence deemed acceptable to the verification team. Based on on-site visit inspection and document review, the

¹ However, apropos to the I & R completeness check query raised by UNFCCC, two separate MRs were published by splitting the monitoring period into two as below:

Monitoring period 2: 16/01/2013 to 31/05/2015

Monitoring period 3: 01/06/2015 to 31/12/2015

verification team confirms that this project design change (installation of 1 MW landfill gas engine) does not have any adverse impact on the compliance of the monitoring plan, the level of accuracy of the monitoring activity, the applied monitoring methodology including applicable tool(s) thereby complying paragraph 319 of VVS, Version 09.0 /B01a/.

Further in line with paragraph 320 of VVS, Version 09.0, the verification team has assessed the affect of the project design change as below:

a) Additionality of the registered CDM project activity:

Investment analysis was done for demonstration of additionality of the project activity with NPV as the chosen financial indicator. The verification team noted that there is no financial gain from the project activity apart from the CDM benefits and the condition remains same even after the implementation of the above project design change (i.e. installation of 1 MW LFG engine for meeting the captive power requirement). In the original project design, the captive auxiliary power requirement was met with DG sets and running of DG sets involved recurring operating costs (for purchasing diesel and its maintenance). In the implemented 1 MW captive LFG engine, there will be savings in this operating cost due to less consumption of diesel. But in the calculation of NPV for demonstration of additionality in the registered PDD, PP had conservatively considered the operating cost as 0. Hence, this reduction of fuel cost due to the project design change will not change the original NPV as calculated in the registered PDD. Thus the verification team confirms that the project design change does not adversely affects the additionality of the project activity and the project activity still remains additional.

b) Scale of the registered CDM project activity:

The project is a large scale project activity and the project design change does not adversely affect the scale of the project activity,

c) Applicability and application of the approved baseline methodology under which the CDM project activity has been registered;

The applicability conditions of the applied methodology ACM0001, version 12.0.0 are demonstrated as below:

Applicability Criteria	Justification / Assessment
<p><i>This methodology is applicable to project activities which:</i></p> <p>(a) <i>Install a new LFG capture system in a new or existing SWDS; or</i></p> <p>(b) <i>Make an investment into an existing LFG capture system to increase the recovery rate or change the use of the captured LFG, provided that:</i></p> <p>(i) <i>The captured LFG was only vented or flared and not used prior to the implementation of the project activity; and</i></p> <p>(ii) <i>In the case of an existing active LFG capture system for which the amount of LFG cannot be collected</i></p>	<p><u>Applicable and fulfilled:</u></p> <p>(a) The project activity involved installation of a new LFG capture system in an existing Solid waste disposal site (SWDS) which was validated at the time of registration of the project activity.</p> <p>(b) Not applicable as there was no existing LFG capture system in the pre-project scenario and this was validated at the time of registration of the project activity.</p> <p>(c) At the time of registration of the project activity it was confirmed</p>

	<p><i>separately from the project system after the implementation of the project activity and its efficiency is not impacted on by the project system: historical data on the amount of LFG capture and flared is available.</i></p> <p>(c) <i>Flare the LFG and/or use the captured LFG in any (combination) of the following ways:</i></p> <ul style="list-style-type: none"> (i) <i>Generating electricity;</i> (ii) <i>Generating heat in a boiler, air heater or kiln (brick firing only);² and/or</i> (iii) <i>Supplying the LFG to consumers through a natural gas distribution network.</i> <p>(d) <i>Do not reduce the amount of organic waste that would be recycled in the absence of the project activity.</i></p>	<p>that the gas captured in the project activity would be flared. But due to the project design change (installation of 1 MW LFG engine), electricity will be generated by using a part of the LFG and this still satisfies the methodology.</p> <p>(d) The project activity involved installation of a LFG capture and flaring system which does not result in any reduction of waste that would be recycled in absence of the project activity and this was validated at the time of registration of the project activity. The verification team also confirms that installation of the 1 MW LFG engine does not reduce the amount of organic waste that would be recycled in the absence of the project activity.</p> <p>Hence this criterion is fulfilled.</p>
	<p><i>The methodology is only applicable if the application of the procedure to identify the baseline scenario confirms that the most plausible baseline scenario is</i></p> <p>(a) <i>Partial or total release of the LFG from the SWDS; and</i></p> <p>(b) <i>In the case that the LFG is used in the project activity for generating electricity and/or generating heat in a boiler, air heat or kiln;</i></p> <ul style="list-style-type: none"> (i) <i>For electricity generation: that electricity would be generated in the grid or in captive fossil fuel fired power plants; and/or</i> (ii) <i>For heat generation: that heat would be generated using fossil fuels in on-site equipment.</i> 	<p><u>Applicable and fulfilled:</u></p> <p>(a) The most plausible baseline scenario identified for the project activity is total release of the LFG from the landfill which is demonstrated and validated in the registered PDD.</p> <p>(b) Part of the LFG is being used for electricity generation due to the project design change (installation of 1 MW LFG engine). The verification team confirms that this amount of electricity would have been generated by using a captive fossil fuel fired power plant (as in this case 2 numbers of DG sets were used to meet the captive requirement of electricity). There is no heat generation involved in the project activity. Hence this criterion is fulfilled.</p>
	<p><i>This methodology is not applicable:</i></p> <p>(a) <i>In combination with other approved methodologies. For</i></p>	<p><u>Applicable and fulfilled:</u></p> <p>(a) The project activity does not involve use of any other</p>

² For claiming emission reductions for other heat generation equipment (including other products in kilns), project participants may submit a revision to this methodology.

instance, ACM0001 cannot be used to claim emission reductions for the displacement of fossil fuels in a kiln, where the purpose of the CDM project activity is to implement energy efficiency measures at the kiln;

- (b) *If the management of the SWDS in the project activity is deliberately changed in order to increase methane generation compared to the situation prior to the implementation of the project activity (e.g. other to meet a technical or regulatory requirement). For example, this may apply to the addition of liquids to a SWDS, pre-treating waste to seed it with bacteria for the purpose of increasing the anaerobic degradation environment of the SWDS or changing the shape of the SWDS to increase the Methane Correction Factor.*

methodology apart from ACM 0001 (even after the project design change).

- (b) There is no change in the management of the SWDS apart from the installation of the LFG recovery system. Prior to the project activity the solid wastes are dumped in the selected area and then the wastes are mechanically compacted. After the entire waste in that area is compacted intermediate layer of sand is put on the waste and the same procedure is followed layer after layer. The waste will be dumped in similar manner in the future as well. There will be no such deliberate change in the management of the SWDS which will increase the methane generation compared to the situation prior to the implementation of the project activity. This was validated in the registered PDD and does not change due to project design change.

Hence the criterion is fulfilled.

The "Tool to determine project emissions from flaring gases containing methane" version 1 is applicable under the following conditions:

Applicability Criteria	Justification / Assessment
<i>The residual gas stream to be flared contains no other combustible gases than methane, carbon monoxide and hydrogen</i>	It was validated in the registered PDD that the residual gas stream to be flared (landfill gas) does not contain any combustible gases other than methane, carbon monoxide and inert gases such as nitrogen and this does not change due to the project design change.
<i>The residual gas stream to be flared shall be obtained from decomposition of organic material (through landfills, bio-digesters or anaerobic lagoons, among others) or from gases vented in coal mines (coal mine methane and coal bed methane)</i>	It was validated in the registered PDD that the residual gas stream to be flared (landfill gas) is obtained from decomposition of organic material in landfills and this does not change due to project design change.

The "Tool to calculate baseline, project and/or leakage emissions from electricity consumption", version 1 is only applicable if one out of the following three scenarios

applies to the sources of electricity consumption:

Applicability Criteria	Justification
<i>Scenario A: Electricity consumption from the grid. The electricity is purchased from the grid only.</i>	This is not applicable as the electricity consumed in the project activity is not sourced from the grid.
<i>Scenario B: Electricity consumption from (an) off-grid fossil fuel fired captive power plant(s).</i>	<u>Applicable and fulfilled:</u> This is applicable to the project activity as the electricity consumed in the project activity would be sourced from either the diesel generator set located at the site and / or from the 1 MW LFG engine installed due to project design change. However, as a conservative measure, PP is considering project emissions for all the electricity (generated by DG sets and the LFG engine for captive consumption) which is conservative approach and hence deemed acceptable.
<i>Scenario C: Electricity consumption from the grid and (a) fossil fuel fired captive power plant(s).</i>	<u>This is not applicable as the</u> electricity consumed in the project activity is sourced from the diesel generator set and / or 1 MW LFG engine located at the site (and not from the grid).

The "Emissions from solid waste disposal sites", version 6.0.1, is applicable under the following conditions:

Applicability Criteria	Justification / Assessment
<i>The tool is applicable in cases where the solid waste disposal site where the waste would be dumped can be clearly identified. The tool is not applicable to stockpiles. The tool is not applicable to hazardous wastes.</i>	The waste disposal site can be clearly identified as the active Al Qusais landfill site. The Al Qusais landfill is not a stockpile nor is it used for the disposal of hazardous wastes. This was validated in the registered PDD and does not change due to project design change.

Tool to determine the mass flow of a greenhouse gas in a gaseous stream, version 02.0.0:

Applicability Criteria	Justification / Assessment
<i>Typical applications of this tool are methodologies where the flow and composition of residual or flared gases or exhaust gases are measured for the determination of baseline or project emissions.</i>	The flow and the composition of residual or flared gases or exhaust is monitored in this project for the determination of the baseline and project emission and thus the applicability criteria is satisfied as validated in the registered PDD and does not change due to project design change.

	<p><i>Methodologies where CO₂ is the particular and only gas of interest should continue to adopt material balances as the means of flow determination and may not adopt this tool as material balances are the cost effective way of monitoring flow of CO₂.</i></p>	<p>This is not applicable as there is no CO₂ emissions involved particularly as validated in the registered PDD and does not change due to project design change.</p>
	<p>Hence it is confirmed that the project design change (installation of 1 MW LFG engine) does not adversely affect the methodology and the applicable tools applicability criteria.</p> <p>d) The compliance of the monitoring plan with the applied monitoring methodology: The verification team confirms that due to the project design change, there is no change in the monitoring plan of the registered PDD and the monitoring methodology. No claim for the baseline emissions due to destruction of the methane gas used for producing power is being made by the PP. Hence the original monitoring plan is being retained, i.e. monitoring of the LFG being flared (only for which baseline emissions are being claimed). Also project emissions are considered for the whole of the power generated (including diesel generators and the LFG gen set) and accordingly there is no change in the monitoring plan for power. This is conservative and deemed acceptable.</p> <p>The verification team confirms that PP has submitted the revised PDD in the latest valid applicable PDD Form /B06/ as per the requirement of paragraph 270 of PS, Version 09.0 /B01b/ and paragraph 295 (a) of VVS, Version 09.0 /B01a/ for the applicable project design change for the project activity. The verification team also confirms that information transferred to the later valid version of the PDD form is materially the same as that in the registered PDD in line with paragraph 296 of VVS, Version 09.0 /B01a/.</p>	

D.8. Types of changes specific to afforestation and reforestation project activities

Means of validation	Not applicable
Findings	Not applicable
Conclusion	Not applicable

SECTION E. Internal quality control

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The final validation report passed a technical review before being submitted to the UNFCCC Executive Board. The technical review was performed by a technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification.

SECTION F. Validation opinion

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Carbon Check (India) Private Ltd. (CC IPL) has performed the third periodic verification of the registered CDM Project Activity "LFG flaring project in Dubai, UAE" having UNFCCC reference number 8269. During the verification of project activity, design change from registered project activity has been identified. The post registration changes (PRC) to registered project activity has been validated in line with the requirements of PCP and VVS, Versions 09.0 /B01a/. In line with paragraph 325 of VVS, Version 09.0, CCIPL confirms that the design change information in the revised PDD version 8, dated 18/07/2016 /5/ reflects actual changes related to the project design of the registered PDD and it is as per paragraph 6 of Appendix 1 of PS, Version 09.0 /B01b/. These changes fall under the category of change that do not require prior approval of the Board.

The validation was performed on the basis of rules and requirements defined by UNFCCC for the CDM project activities. The review of the revised PDD, supporting documentation and subsequent follow-up actions (including onsite visit and interviews), have provided CCIPL with sufficient evidence to determine the fulfilment of stated criteria.

The description in the revised PDD Version 8 dated 18/07/2016 /5/ meets all relevant UNFCCC requirements for the CDM and correctly applies the selected baseline and monitoring methodology. This report is the assessment opinion for the change that is proposed in the PDD and request is submitted for acceptance of the Board as a part of request for issuance in line with paragraph 158 of PCP, Version 09.0 /B01a/.

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CA	Corrective Action/ Clarification Action
CER	Certified Emission Reduction
CAR	Corrective Action Request
CC IPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CH ₄	Methane
CL	Clarification Request
CO ₂	Carbon Dioxide
CO _{2e}	Carbon Dioxide Equivalent
DOE	Designated Operational Entity
DVR	Draft Verification Report
EB	CDM Executive Board
EF	Emission Factor
ERPA	Emission reduction purchase agreement
FA	Final Approval
FAR	Forward Action Request
FCIPL	First Climate (India) Private Ltd.
FVR	Final Validation Report
GESS	Green Energy Solutions & Sustainability LLC
GHG	Greenhouse gas(es)
GWh	Giga Watt Hour
GWP	Global Warming Potential
I & R	Information and Reporting
IPCC	Intergovernmental Panel on Climate Change
LE	Leakage Emissions
LFG	Landfill gas
MP	Monitoring Period
MR	Monitoring Report
MWh	Mega Watt Hour
OSV	On Site Visit
PE	Project Emissions
PP(s)	Project Participant(s)
PRC	Post registration change
QC/QA	Quality Control/ Quality Assurance
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Ltd.

Sanjay Agarwalla

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input checked="" type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

In the following Technical Areas:

TA 1.1	<input checked="" type="checkbox"/>	TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input checked="" type="checkbox"/>	TA 9.2	<input checked="" type="checkbox"/>	TA 13.2	<input type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 4.1	<input checked="" type="checkbox"/>	TA 8.1	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input type="checkbox"/>
TA 2.1	<input checked="" type="checkbox"/>	TA 5.1	<input checked="" type="checkbox"/>	TA 9.1	<input checked="" type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>		

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO



Date of Approval
24/12/2015

Valid Till
23/12/2016

Revision History of the Document

26/12/2014
20/01/2016

Initial Adoption
Revision to reflect updated office address

¹ India

CARBON CHECK (INDIA) PRIVATE LIMITED

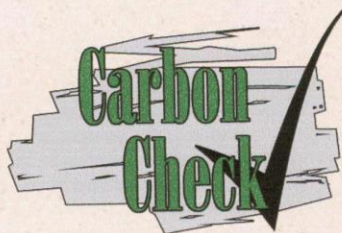
Registered in India: U74930DL2012PTC232495

Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005

Corporate off: G 49 & 50, 3rd Floor, Sector - 3, NOIDA (Uttar Pradesh) - 201301

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e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Vikash Kumar Singh

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input checked="" type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

In the following Technical Areas:

TA 1.1	<input type="checkbox"/>	TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input checked="" type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 4.1	<input checked="" type="checkbox"/>	TA 8.1	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input type="checkbox"/>
TA 2.1	<input type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>		

Mr. Amit Anand
CEO



Date of Approval
24/12/2015

Valid Till
23/12/2016

Revision History of the Document

26/12/2014
20/01/2016

Initial Adoption
Revision to reflect updated office address

¹ India, South Africa

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Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	FCIPL	1. Monitoring Report (published MR) 2. Monitoring Report 3. Monitoring Report 4. Monitoring Report	Version 01 dated 18/04/2016 Version 02 dated 08/07/2016 Version 03 dated 18/07/2016 Version 04 dated 26/07/2016	PP
2	FCIPL	Final Monitoring Report	Version 05 dated 23/08/2016	PP
3	Hofstetter Umwelttechnik AG	Operating instruction manual/ Technical specifications of the project equipment and monitoring equipment issued by Hofstetter Umwelttechnik AG	-	PP
4	GE	Technical specification details of the 1 MW landfill gas fired power plant installed after the installation of the project activity (which is not part of the registered CDM project activity)	-	PP
5	PP	Revised PDD (in track change and clean mode)	Version 8, dated 18/07/2016	PP
/B01/	UNFCCC	a. CDM Validation and Verification Standard, version 9.0 b. CDM Project Standard, version 09.0 c. CDM Project Cycle Procedure, version 09.0	-	UNFCCC
/B02/	UNFCCC	Approved consolidated methodology "Flaring or use of Landfill gas" ACM0001, version 12	-	UNFCCC
/B03/	UNFCCC	Monitoring report form and guidelines, version 05.1	-	UNFCCC
/B04/	UNFCCC	CDM Project documents: a. Registered PDD for CDM project "LFG flaring project at Dubai, UAE" version 7 dated 30/10/2012 and the corresponding validation report b. First Monitoring Report for CDM project "LFG flaring project at Dubai, UAE" version 01 dated 18/11/2013 and the corresponding verification report	-	UNFCCC
/B05/	UNFCCC	UNFCCC website: http://cdm.unfccc.int	-	UNFCCC
/B06/	UNFCCC	PDD Form version 07.0 along with instructions to complete the form	-	UNFCCC

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

Table 1. CL from this validation

CL ID	xx	Section no.	Date: DD/MM/YYYY
Description of CL			
-			
Project participant response			Date: DD/MM/YYYY
-			
Documentation provided by project participant			
-			
DOE assessment			Date: DD/MM/YYYY
-			

Table 2. CAR from this validation

CAR ID	CAR 01	Section no.	D.7	Date: 10/06/2016
Description of CAR				
Instructions for completing the MR for section B.2.6 which states “ <i>In cases where the change(s) and the revised PDD are approved prior to the submission of this monitoring report for request for issuance, provide the approval date and reference number. Otherwise, provide the version number and the completion date of the revised PDD and DOE assessment opinion on the request for post-registration changes that is being submitted with this monitoring report</i> ” has not been complied. Section 13.8.3.5 of the PS, version 09.0 may also be referred in this context. Also PP is requested to clarify the statement “ <i>There has not been any change in the project design during this monitoring period</i> ”, on page 9 of the published MR.				
Project participant response				Date: 08/07/2016
The changes to the project activity in the form of setting up of a landfill gas based power generation system are included in the revised PDD. For conservativeness the power generated onsite is treated as good as the DG power (which is also kept as backup and used in case of failure of the gas based generation system) and project emissions arising out the same is removed from baseline emissions. The amount of methane destroyed by way of power generation is not claimed in the project due to conservative approach and thus claims are solely on the amount of methane destroyed by way of flaring and the same is monitored as per original monitoring plan. Thus no change is required in the monitoring plan. There is no change in the monitoring plan and neither does the project change cause any increase in ERs in the project. Thus the same only results in further conservativeness. the same is included in the revised MR and in the revised PDD and submitted to the verifier.				
Documentation provided by project participant				
Revised MR, revised PDD				
DOE assessment				Date: 10/07/2016
PP has submitted revised PDD for PRC in line with section 13.8.3.5 of the PS, version 09.0. Hence the CAR is closed.				

Table 3. FAR from this validation

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

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Document information

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01.0	23 March 2015	Initial publication.
Decision Class: Regulatory		
Document Type: Form		
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