



VALIDATION OPINION

for changes of CME

**The program to improve energy independence of
public sewerage system through biogas increased
efficiency in Korea**

UNFCCC Ref. No. 10014

VERSION 01.1

KOREAN FOUNDATION FOR QUALITY

SECTION A. General

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Korean Foundation for Quality (KFQ) has been engaged by Korea Environment Corporation (KECO, Current Coordinating/Managing Entity) to perform a validation for changes of Coordinating/Managing Entity of “The program to improve energy independence of public sewerage system through biogas increased efficiency in Korea (UNFCCC Registration Ref. No. 10014)” (hereafter called ‘the PoA).

As per URL of http://cdm.unfccc.int/ProgrammeOfActivities/poa_db/70WQJGMU8VP3ALZRYND5HTOE2B4X9I/view, the PoA was registered on 03 Nov. 2014 under UNFCCC Ref. No. 10014 that three (3) CPAs have been included under the PoA.

Objective

In accordance with para. 204 of the Project Cycle Procedure, the Coordinating/Managing Entity for the PoA contracted a DOE for the purpose of issuing a validation opinion on the change of the Coordinating/Managing Entity.

The purpose of the validation is to have an independent third party assessment in regard to the changes of Coordinating/Managing Entity for the PoA. The validation has been performed to review general description, participant of the PoA. This report includes a result of its assessment.

Scope

The validation scope is defined as an independent and objective review of other relevant documents and on-site inspection. The information in these documents is reviewed against the applied UNFCCC criteria for the CDM and host country criteria.

The validation is not meant to provide any consulting towards the client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project design.

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	IR	Park	Kyoung Ae	KFQ	√	√	√	√
2	Team member	IR	Cho	Jin Seok	KFQ	-	√	√	-

B.2. Technical reviewer and approver of the validation 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	IR	Kim	Nam Hoon	KFQ
2	Approver	IR	YEOM	Soon Hong	KFQ

The qualification of each individual validation team member is detailed in Appendix to this report.

SECTION C. Means of validation

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C.1. Desk review

The validation performed by KFQ primarily based on the review of the registered PoA-DD, the three (3) CPA-DDs and the other supporting documents. A complete list of all documents reviewed is shown in Appendix 3 of this validation report. KFQ's validation process takes into consideration all the CDM Rules and Guidances applicable to the project activity, e.g. Clean Development Mechanism Project Standard, Clean Development Mechanism Project Cycle Procedure, Clean Development Mechanism Validation and Verification Standard, relevant decisions, clarifications and guidance from the CMP and the CDM EB.

C.2. On-site inspection

Duration of on-site inspection: 15/04/2016				
No.	Activity performed on-site	Site location	Date	Team member
1.	Confirmation of information provided in the supporting documents.	Gunsan City	21/04/2016	Kyoung Ae Park Cho Jin Seok
2	Confirmation of operational and management arrangements for the implementation of the PoA	Gunsan City	21/04/2016	Kyoung Ae Park Cho Jin Seok

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1	Moon	Jeong Man	Gunsan municipal communities	21/04/2016	PoA project design, operational and management arrangements	Kyoung Ae Park
2	Kim	Won-Tae	KECO	21/04/2016	PoA project design, operational and management arrangements	Kyoung Ae Park
3	Kueon	Bo-Reum	RCC	15/04/2016	PoA project design, operational and management arrangements	Kyoung Ae Park

SECTION D. Validation Findings

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D.1. Description

After the registration of the PoA, the Coordinating/Managing Entity of the registered PoA was changed from KECO to Gunsan Municipal Communities in June 2016. So, the new Coordinating/Managing Entity submitted following documents to a DOE for validation according to PS ver. 09.0.

- 1) A new LoA stating the change and confirming the authorization of coordination of the new coordinating/managing entity of the PoA (June 29, 2016);
- 2) A confirmation that the registered PoA will be developed and implemented with the same framework as described in the registered PoA-DD (July 15, 2016);
- 3) 'The PoA Management System of Gunsan Municipal Communities' to demonstrate that a new Coordinating/Managing Entity has the operational and management arrangements (August 01, 2016)

Thus, KFQ validated that a new Coordinating/Managing Entity that is, Gunsan Municipal Communities has the operational and management arrangements as per para. 343 ~ 344 of VVS ver. 09.0.

D.2. Assessment

The validation team reviewed the documents indicated in the section D.1 and checked compliance with the requirements in para. 316 of the PS.

The validation team checked that LoA stating the changes of CME was issued by MOTIE and MoE on 29 June 2016. The validation team reviewed 'The PoA Management System of Gunsan Municipal Communities' and found that

- 1) Role and responsibility of Gunsan Municipal Communities in section 3. PoA Management Structure and;
- 2) Procedure of CPA inclusion and monitoring in the section 5 and 7.

Based on 'The PoA Management System of Gunsan Municipal Communities' and interview with the person in Gunsan municipal communities, it was confirmed that a new Coordinating/Managing Entity has the operational and management arrangements for the implementation of the proposed CDM PoA.

SECTION E. Internal quality control

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According to KFQ' Procedure for deciding to whether to proceed with a request for change of Coordinating/Managing Entity for the PoA. The technical review is performed by a technical reviewer qualified in accordance with KFQ's qualification scheme for CDM validation and verification.

SECTION F. Validation opinion

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Korean Foundation for Quality (KFQ) has performed a validation for changes of Coordinating/Managing Entity of the PoA.

The validation was performed on the basis of UNFCCC criteria for the CDM and host country criteria, as well as criteria given to provide for the consistent project operation.

The review of the registered PoA-DD, the three (3) CPA-DDs and the other supporting documents, and the subsequent follow-up interviews have conducted with sufficient evidences to determine the fulfilment of all stated criteria.

In our opinion, the change of Coordinating/Managing Entity of the PoA meets all relevant UNFCCC requirements for the CDM. Furthermore, we confirmed that a new Coordinating/Managing Entity has the operational and management arrangements for the implementation of the proposed CDM PoA.

Therefore, KFQ requests the approval of post-registration changes of the project activity as justified above.

Signed on behalf of the Korean Foundation for Quality

Signature : 

Name : Soon Hong YEOM

Date : 9 August 2016

Appendix

Appendix 1. Abbreviations

Abbreviations	Full Texts
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CDM PCP	Clean Development Mechanism Project Cycle Procedure
CDM PS	Clean Development Mechanism Project Standard
CDM VVS	CDM Validation and Verification Standard
CME	Coordinating/Managing Entity
CPA	Component Project Activity
CPA DD	Component Project Activity Design Document
DOE	Designated Operational Entity
GHG	Greenhouse Gas(es)
KECO	Korea Environment Corporation
KFQ	Korea Foundation for Quality
LoA	Letter of authorization
MoE	Ministry of Environment
MOTIE	Ministry of Trade, Industry and Energy
PoA	Programme of Activity
PoA DD	Programme of Activity Design Document
QA/QC	Quality Assurance and Quality Control
UNFCCC	United Nations Framework Convention on Climate Change

Appendix 2. Qualification of Validation Team and Technical Reviewer



CERTIFICATE OF COMPETENCE

Name: Kyung Ae PARK

Qualification:

	Validation	Verification
-Lead auditor	■	■
-Auditor	<input type="checkbox"/>	<input type="checkbox"/>
-Technical Expert	<input type="checkbox"/>	<input type="checkbox"/>
-Local Expert	<input type="checkbox"/>	<input type="checkbox"/>

Scopes of Expertise:

Technical Area (TA)

1.2 Renewables

She is approved as the qualification above according to the KFQ's procedure of Qualifying and Maintaining of Auditor on 31 March 2016.

Sustainability Management Institute
Sang Yeon PARK

A handwritten signature in black ink, appearing to be 'Sang Yeon PARK', is written over a faint, stylized signature line.



CERTIFICATE OF COMPETENCE

Name: Jin Seok CHO

Qualification:

	Validation	Verification
-Lead auditor	■	■
-Auditor	<input type="checkbox"/>	<input type="checkbox"/>
-Technical Expert	<input type="checkbox"/>	<input type="checkbox"/>
-Local Expert	<input type="checkbox"/>	<input type="checkbox"/>

Scopes of Expertise:

Technical Area (TA)

- 1.1 Thermal energy generation
- 1.2 Renewables
- 13.1 Solid waste and wastewater
- 13.2 Manure

He is approved as the qualification above according to the KFQ's procedure of Qualifying and Maintaining of Auditor on 31 March 2016

Sustainability Management Institute
Sang Yeon PARK

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CERTIFICATE OF COMPETENCE

Name: Nam Hoon KIM

Qualification:

	Validation	Verification
-Lead auditor	■	■
-Auditor	<input type="checkbox"/>	<input type="checkbox"/>
-Technical Expert	<input type="checkbox"/>	<input type="checkbox"/>
-Local Expert	<input type="checkbox"/>	<input type="checkbox"/>

Scopes of Expertise:

Technical Area (TA)

- 1.1 Thermal energy generation
- 1.2 Renewables

He is approved as the qualification above according to the KFQ's procedure of Qualifying and Maintaining of Auditor on 31March 2016.

Sustainability Management Institute
Sang Yeon PARK

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Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	CME	PoA-DD: The program to improve energy independence of public sewerage system through biogas increased efficiency in Korea Version 18	13/10/2014 Published under: http://cdm.unfccc.int/ProgrammeOfActivities/register ed.html	Others
2	SGS	Validation report of PoA-DD: The program to improve energy independence of public sewerage system through biogas increased efficiency in Korea Version 2.1	17/10/2014 http://cdm.unfccc.int/ProgrammeOfActivities/poa_db/70WQJGMU8VP3ALZRYND5HTOE2B4X9I/view	Others
3	CPA implementer	CPA-DD: Installation of co-generation system in sewage treatment of Chuncheon Version 18	http://cdm.unfccc.int/ProgrammeOfActivities/cpa_db/OZ7BSL0IV5UG642YT9CQKAMFDN3WX1/view	Others
4	CPA implementer	CPA-DD: “Installation of co-generation system in sewage treatment plant of Asan” Version 1 Version 2	20/11/2015 27/05/2016	CPA implementer
5	CPA implementer	CPA-DD: “The retrofit of heat generation system through increased biogas at Gunsan sewage treatment plant” Version 1 Version 2	22/02/2016 11/06/2016	CPA implementer
6	MOTIE, MoE	LoA of Changed of CME	29/06/2016	CME
7	CME	Change of coordinating/managing entity for programme of activities	15/07/2016	CME
8	CME	The PoA Management System of Gunsan Municipal Communities’	01/08/2016	CME