



SSC POA VALIDATION REPORT

A&T CARBON ASSET CO., LIMITED

BIOGAS DEVELOPMENT PROGRAMME AT
HOUSEHOLD/ SMALL FARM LEVEL IN GANSU
PROVINCE

Report No: 8000399530 – 11/449

Date: 2012-11-14

TÜV NORD CERT GmbH
JI/CDM Certification Program
Langemarckstraße, 20
45141 Essen, Germany
Phone: +49-201-825-3335
Fax: +49-201-825-3290
www.tuev-nord.de
www.global-warming.de



Validation Report:	Report No. 8000399530 – 11/449	Rev. No. 0	Date of 1st issue: 2012-11-14	Date of this rev. 2012-11-14
Client:	A&T Carbon Asset Co., Limited	Client ref.:	Mr. Wang Xia.	
Project: PoA-DD	Title: Biogas Development Programme at household/ small farm level in Gansu Province	Version: version 01 dated 2011-08-30	Version Version 03 dated 2012-09-19	
Generic CPA-DD	Biogas Development Programme at household/ small farm level in Gansu Province—CPA -XXXX (CPA No.)	version 01 dated 2011-08-30	Version 03 dated 2012-09-19	
Involved Parties	Host party: P.R. China	Involved parties: United Kingdom of Great Britain and Northern Ireland		
CME and Project Participants	Involved Entities/ Roles Lanzhou Hualong Poultry Breeding Co. A&T Carbon Asset Co., Limited	CME: <input checked="" type="checkbox"/> <input type="checkbox"/>	Project Participant: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
Applied methodology(ies):	Title: Biogas/biomass thermal applications for households/small user Methane recovery in agricultural activities at household/small farm level	Version No.: AMS-I.I. version 04.0 AMS-III.R. version 03	Scope: 1 15	Approved for PoA: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
Validation team / Technical Review and Final Approval	Validation Team: Li Yongjun; Yan Tao; Ulrich Walter;	Technical review: C. Stöhr, S. Winter	Final approval: Dr. J. Schubert	
Real Case Details	Expected annual average emission reductions over the first crediting period: 8,082t CO _{2e}	PoA Duration: 28 years	Expected PoA starting date: 2013-01-01	
Summary	<input checked="" type="checkbox"/> Positive validation opinion	<input type="checkbox"/> Negative validation opinion		
Summary of Validation Opinion:	<p>A&T Carbon Asset Co., Limited has commissioned the TÜV NORD JI/CDM Certification Program (CP) to validate the programme of activities (PoA): "Biogas Development Programme at household/ small farm level in Gansu Province" with regard to the relevant requirements of the UNFCCC for CDM project activities, as well as criteria for consistent project operations, monitoring and reporting. UNFCCC criteria include article 12 of the Kyoto Protocol, the modalities and procedures for CDM (Marrakech Accords) and the relevant decisions by COP/MOP and CDM Executive Board.</p> <p>In the course of the validation 17 Corrective Action Requests (CARs) and 6 Clarification Requests (CLs) for PoA-DD and 1 CAR for generic CPA-DD were raised and all have been successfully closed. no FAR has been raised.</p> <p>The review of the PoA design documentations and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and review of comments by parties, stakeholders and NGOs have provided TÜV NORD JI/CDM CP with sufficient evidence to validate the fulfilment of the stated criteria.</p> <p>In detail the conclusions can be summarised as follows:</p> <ul style="list-style-type: none"> - The PoA is in line with all relevant host country criteria (P.R. China) and all relevant UNFCCC requirements for CDM. Project activity approvals (LoAs) have been obtained from DNA of P.R. China dated February 2012(No. 3687) and from DNA of United Kingdom of Great Britain and Northern Ireland dated 2012-04-02. - The baseline has been appropriately identified as per the applied methodologies. - The PoA additionality is sufficiently justified in the PoA-DD. - The eligibility criteria established for CPA inclusion are deemed appropriate and sufficient. - The monitoring plan is transparent and adequate. - The calculation of the emission factors and the CPA emission reductions is carried out in a transparent and conservative manner. - Information on the local stakeholders' consultation by the project participants prior to submitting the PoA for validation is sufficiently provided in the PoA-DD. - All information has been also consistently applied in the generic CPA-DD form. <p>The conclusions of this report show, that the PoA, as it was described in the project documentations, is in line with all criteria applicable for the validation.</p>			
Document information:	Filename: 2012-11-17 PoA FVR_Biogas DP.docx	No. of pages: 144		

Abbreviations

BAU	Business as usual
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CME	coordinating/managing entity
CO₂	Carbon dioxide
CO_{2e}	Carbon dioxide equivalent
CP	Certification Program
CPA	CDM Programme Activities
CPA-DD	CDM programme Activity Design Document
DNA	Designated National Authority
DOE	Designated Operational Entities
EB	CDM Executive Board
EIA	Environmental Impact Assessment
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GSCP	Global Stakeholder Consultation Process
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval
NDRC	National Development and Reform Commission
ODA	Official Development Assistance
PoA	Programme of Activities
PoA-DD	CDM Programme of Activities Design Document
POA-DDs	(CDM PoA and CPA) Design Documents
PP	Project Participant
SSC	Small Scale
QC/QA	Quality control/Quality assurance
UNFCCC	United Nations Framework Convention on Climate Change
VVM	Validation and Verification Manual

Table of Contents	Page
1 OBJECTIVE / SCOPE	6
2 GHG POA DESCRIPTION.....	10
2.1 PoA Characteristics	10
2.2 Involved Parties,	11
2.3 Programme Boundary and Location	11
2.4 Technical Programme Description	12
3 METHODOLOGY AND VALIDATION SEQUENCE.....	13
3.1 Validation Steps	13
3.2 Contract review	13
3.3 Appointment of team members and technical reviewers	14
3.4 Consideration of Public Stakeholder Comments	15
3.5 Validation Protocol	15
3.6 Review of Documents	16
3.7 Follow-up Interviews	16
3.8 Project comparison	17
3.9 Resolution of Clarification and Corrective Action Requests	17
3.9.1 Definition	17
3.9.2 Draft Validation	17
3.9.3 Final Validation	17
3.10 Technical review	18
3.11 Final approval	18
4 VALIDATION FINDINGS	19
5 VALIDATIONASSESSMENT SUMMARY.....	55
5.1 General Description of the PoA	55
5.1.1 Participation	55
5.1.2 Contribution to Sustainable Development	55
5.1.3 PDDs editorial Aspects	55
5.1.4 Technology to be employed	56
5.1.5 Small Scale Projects	56
5.2 PoA Baseline, Additionality and Monitoring Plan	57
5.2.1 Application of the Methodology	57
5.2.2 PoA Boundary and CPA Boundary	58
5.2.3 Baseline Identification	58
5.2.4 Calculation of GHG Emission Reductions	59
5.2.5 Additionality Determination	61
5.2.6 Monitoring Methodology	63
5.2.7 Monitoring Plan	63
5.2.8 Project Management Planning	64
5.2.9 Crediting Period and PoA Duration	64

5.2.10	Environmental Impacts	64
5.2.11	Comments by Local Stakeholders	65
5.2.12	CPA Eligibility Criteria	66
6	VALIDATION OPINION	67
7	REFERENCES	68
	ANNEX 1: VALIDATION PROTOCOL	76
	ANNEX 2: ASSESSMENT OF BASELINE IDENTIFICATION	127
	ANNEX 3: ASSESSMENT OF FINANCIAL PARAMETERS.....	128
	ANNEX 4: ASSESSMENT OF BARRIER ANALYSIS	129
	ANNEX 5: OUTCOME OF THE GSCP	130
	ANNEX 6: ELIGIBILITY CRITERIA ASSESSMENT	131
	ANNEX 7: APPOINTMENT CERTIFICATES OF TEAM MEMBERS.....	143

1 OBJECTIVE / SCOPE

The purpose of a PoA validation is to have an independent third party assess the project design. In particular the project's baseline, the monitoring plan (MP), and the project's compliance with

- the requirements set forth in the most recent versions of the CDM Rules, including the requirements of Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords under decision 3/CMP.1 the subsequent decisions by the CMP, and any relevant documents released by the CDM Executive Board (the "EB") and available on the UNFCCC CDM website at <http://unfccc.int> (the aforementioned requirements together the "CDM Requirements");
- Clean Development Mechanism Validation and Verification Manual (current version 01.2; EB55 Annex 1, esp. para 165 – 168) (the "VVM")
- Procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission reductions for a programme of activities (current version 04.1, EB 55 Annex 38) (the "PoA Procedures");
- Procedures for review of erroneous inclusion of a CPA (current version 03, EB 61 Annex 22) (the "CPA Review Procedures")
- Guidance for determining the occurrence of de-bundling under a programme of activities (PoA) (current version 03, EB54 Annex 13) (the "De-bundling Guidance")
- Procedures for approval of the application of multiple methodologies to a programme of activities (current version 01; EB 47 Annex 31)
- Guidelines on the demonstration of additionality of small-scale project activities (Version 09.0, EB 68 Annex 26)
- Standard for the development of eligibility criteria for the inclusion of a project activity as a CPA under the PoA (version 01.0, EB 63 Annex 3)
- Standard for application of multiple CDM methodologies for a programme of activities (version 01.0, EB 63 Annex 4)
- Standard for sampling and surveys for CDM project activities and programme of activities (version 02.0, EB 65 Annex 2)
- Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities (version 01.0, EB65 Annex 3)
- CDM-SSC-PoA-DD - Small-Scale CDM Programme of Activities Design Document form (version 01, EB 33 Annex 43 and version 01.0, EB66 Annex 13)
- CDM-SSC-CPA-DD - Small-Scale CDM Programme Activity Design Document

form (version 01, EB 33 Annex 44 and version 01.0, EB66 Annex 17)

- the host country legislation and sustainability criteria as applicable under the CDM-related laws and regulations of the country in which the PoA and CPAs are physically located;
- AMS-I.I - Applied methodology of Biogas/biomass thermal applications for households/small user (version 04);
- AMS-III.R - Applied methodology of Methane recovery in agricultural activities at household/small farm level (version 03).
- AMS-III.D - Applied methodology of Methane recovery in animal manure management systems(version 18);
- Tier 2 approach to estimate CH₄ emissions from manure management, Chapter 10 “Emissions from Livestock and Manure Management”, under the volume 4 “Agriculture, Forestry and Other Land Use” of the “2006 IPCC Guidelines for National Greenhouse Gas Inventories”.
- Response to the submission SSC_599 requesting clarification regarding applications of AMS-I.I v02, AMS-III.R v02 and AMS-III.D v18, submitted by TÜV-NORD and responded by SSC WG 35 dated 30 January–02 February 2012;
- MOC procedure - Procedures for modalities of communication between project participants and the executive board (version 01, EB 45 Annex 59).

are validated in order to confirm that the programme design as documented is sound and reasonable and meets the stated requirements and identified criteria. Validation is seen as necessary to provide assurance to stakeholders on the quality of the programme and its intended generation of certified emission reductions (CERs).

The validation scope is given as a thorough independent and objective assessment of the programme design, information that are included in the POA-DDs and other relevant supporting documents, to ensure that the proposed CDM programme activity meets all relevant and applicable CDM and PoA criteria.

As per the PoA procedures, TÜV NORD will validate the following documentation as provided by the client:

- a completed Clean Development Mechanism Programme of Activities Design Document Form (the “**PoA-DD**”);
- a completed PoA-specific Clean Development Mechanism Program Activity Design Document Form(the “**CPA-DD form**”) with generic information relevant to all CPAs (as the “**generic CPA-DD**”);
- a completed CDM-CPA-DD which is to be based on the application of the PoA to one real case (the “**real case CPA-DD**”), and
- relevant supporting documents.

TÜV NORD validates the following information provided by the client in the PoA-DD:

- the correct application of the baseline and monitoring methodology (ies) and tools,
 - In cases where more than one approved methodology will be applied to each CPA, confirmation that the application of multiple methodologies has been approved in accordance with “Procedures for approval of the application of multiple methodologies to a programme of activities” (EB 47 annex 31).
- coordinating/managing entity, host party/ies and PoA Participants
- geographical boundaries of the PoA including all national and/or sectoral policies and regulations;
- policy, measure or stated goal of the PoA;
- confirmation about voluntary action by the coordinating/managing entity;
- the programme’s baseline study;
- demonstration of additionality of the PoA;
- description of a typical CPA (including technology or measures, baseline and monitoring methodology justification and application, demonstration of additionality, and accounting for leakage);
- eligibility criteria designed for the inclusion of CPAs in the PoA, including criteria to be used for demonstration of additionality of a CPA;
- starting date and length of the PoA;
- operational and management arrangements established by the coordinating/ managing entity for the implementation of the PoA, including
 - a record keeping system for each CPA under the PoA,
 - a system/procedure to avoid double accounting e.g. to avoid the case of including a new CPA that has been already registered either as CDM project activity or as a CPA of another PoA,
 - the provisions to ensure that those operating the CPA are aware and have agreed that their activity is being subscribed to the PoA;
- monitoring plan for a CPA with record-keeping system;
- indicators/data to be monitored and reported;
- statistically sound sampling method to be used for verification;
- environmental impacts and analysis;
- Stakeholder Consultation Procedure as required under the CDM Rules;
- public funding;
- Letter(s) of Approval as required under the CDM Rules.

TÜV NORD validates the following information provided by the client in the PoA-Generic CDM-CPA-DD:

- unique identification of the CPA by location or if applicable by registration code;
- contact details of persons responsible for each CPA;

- host party;
- starting date and duration of the crediting period;
- eligibility criteria;
- demonstration of additionality;
- baseline greenhouse gas emissions;
- estimated emission reductions;
- environmental impacts and analysis;
- stakeholder consultation procedure;
- confirmation regarding no prior CDM registration or inclusion in another PoA;
- consistency between CDM-POA-DD and the PoA-Generic CDM-CPA-DD.

TÜV NORD validates the Real-Case CDM-CPA-DD with regard to

- consistency with the PoA-DD;
- consistency with the generic CPA-DD;
- additionality;
- eligibility criteria fulfilment;
- emission reduction calculation;
- monitoring plan;
- environmental impacts;
- local stakeholder commenting process.

The information included in the POA-DDs and the supporting documents were reviewed against the requirements as set out by the UNFCCC. The validation team has, based on the requirements in the Validation and Verification Manual^{VVM}, carried out a full assessment of all evidence to assess the compliance of the programme with the key areas as outlined in section V.E. and V.F. of the VVM (version 1.2, EB 55 Annex 1).

The validation is based on the information made available to TÜV NORD JI/CDM CP and on the contract conditions. TÜV NORD JI/CDM CP cannot be held liable by any entity for making its validation opinion based on any false or misleading information supplied to it during the course of validation.

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

2 GHG POA DESCRIPTION

2.1 PoA Characteristics

Essential data of the project is presented in the following Table 2-1.

Table 2-1: PoA Characteristics

Item	Data	
PoA title	Biogas Development Programme at household/ small farm level in Gansu Province	
Generic CPA title	Biogas Development Programme at household/ small farm level in Gansu Province—CPA-XXXX (CPA No.)	
1st CPA (real case) title	Biogas Development Programme at household/ small farm level in Gansu Province—CPA-0001	
CPA size	<input type="checkbox"/> Large Scale <input checked="" type="checkbox"/> Small Scale	
Programme Scope (according to UNFCCC sectoral scope numbers for CDM)	<input checked="" type="checkbox"/> 1	Energy Industries (renewable- /non-renewable sources)
	<input type="checkbox"/> 2	Energy distribution
	<input type="checkbox"/> 3	Energy demand
	<input type="checkbox"/> 4	Manufacturing industries
	<input type="checkbox"/> 5	Chemical industry
	<input type="checkbox"/> 6	Construction
	<input type="checkbox"/> 7	Transport
	<input type="checkbox"/> 8	Mining/Mineral production
	<input type="checkbox"/> 9	Metal production
	<input type="checkbox"/> 10	Fugitive emissions from fuels (solid, oil and gas)
	<input type="checkbox"/> 11	Fugitive emissions from production and consumption of halocarbons and hexafluoride
	<input type="checkbox"/> 12	Solvents use
	<input type="checkbox"/> 13	Waste handling and disposal
	<input type="checkbox"/> 14	Afforestation and Reforestation
	<input checked="" type="checkbox"/> 15	Agriculture
Applied Methodology(ies) Title and Version No.	AMS-I.I. version 04.0. AMS-III.R. version 03.	
PoA Duration	28 years	
Starting date of the PoA	2013-01-01 (or on the date of registration, whichever is later)	
CPA Crediting period	<input checked="" type="checkbox"/> Renewable Crediting Period (7 y) <input type="checkbox"/> Fixed Crediting Period (10 y)	
Start of crediting period of the 1 st (real case) CPA ¹	2013-01-01 (or the date of inclusion of the into the PoA or the date the CPA put into operation, whichever is later)	
Estimated metric tCO ₂ equivalent reductions of the 1 st CPA over the first crediting period	Annual average	8,082 tCO _{2e}
	Total estimation over the 1 st crediting period	56,574 tCO _{2e}

¹As per the published POA-DD (version 1)

2.2 Involved Parties, Coordinating / managing entity(ies), program participants of the POA and operators of individual CPAs

The following parties to the Kyoto Protocol and project participants are involved in this PoA (Table 2-2-1).

Table 2-2-1: Parties and Project Participants of the PoA

Name of Party Involved ((host) indicates a host party)	Private and/or Public Entity(ies) Project Participants	Does Party Involved Wish to be Considered as Project Participant (Yes/No)
P.R. China (host party)	Lanzhou Hualong Poultry Breeding Co. (CME)	No
United Kingdom of Great Britain and Northern Ireland	A&T Carbon Asset Co., Limited	No

The CPA operator(s) of the 1st real case CPA is(are) listed in Table 2-2-2.

Table 2-2-2: Operator(s) of individual CPAs

CPA No.	CPA title	Operator	CPA Location	Geographic Coordinates
0001	Biogas Development Programme at household/ small farm level in Gansu Province—CPA-0001	Lanzhou Hualong Poultry Breeding Co.	Jingning County, Pingliang City, Gansu Province, P. R. China	N/A

2.3 Programme Boundary and Location

The details of the programme location are given in Table 2-3:

Table 2-3-1: Programme Location

No.	Programme Location
Host Country	P.R. China
Region(s):	Gansu province
1 st (real case) CPA Project location address:	Jingning County, Pingliang City, Gansu Province, P. R. China.

2.4 Technical Programme Description

The technical measurement employed in the CPA includes the installation of biogas digesters and their auxiliary facilities for gas collection and gas use. Under anaerobic condition and proper temperature in the reactor, organic waste will be converted into biogas by methanogenic bacteria. The generated biogas will be utilized for thermal energy generation in households. The slurry and residue from the reactor will be used for soil application.

The domestic biogas digester complies with the following standard:

Chinese Agricultural Industry Standard: NY/T 1639-2008, issued 2008-05-16, in effect since 2008-07-01.

The domestic biogas stove complies with the following standard:

National Standard of China, GB/T 3606-2001), issued 2001-11-12, in effect since 2002-03-01.

The biogas lighting complies with the following standard:

Chinese Agricultural Industry Standard: NY/T 344-1998, issued 1998-06-01, in effect since 1999-01-01.

3 METHODOLOGY AND VALIDATION SEQUENCE

3.1 Validation Steps

The validation of the PoA consists of the following steps:

- Contract review
- Appointment of team members and technical reviewers
- Publication of the following project documents POA-DDs
 - the **PoA-DD**
 - the **generic CPA-DD**
 - the **real case CPA-DD**
- A desk review of all abovementioned POA-DDs^{/PoA-DD//CPA-DD-G//CPA-DD-R/} submitted by the client and additional supporting documents with the use of customised validation protocol^{/CPM/} according to the Validation and Verification Manual^{/VVM/}, all PoA related regulations^{/POAR/} and the templates of PoA-DDs^{/PoA-DDs-T/}.
- Validation planning,
- On-Site assessment,
- Background investigation and follow-up interviews with personnel of the project developer and its contractors,
- Draft validation reporting
- Resolution of corrective actions (if any)
- Final validation reporting
- Technical review
- Final approval of the validation.

The sequence of the validation is given in the table 3-1 below:

Table 3-1: Validation sequence

Topic	Time
Assignment of validation	2011-07-20
POA-DD and CPA-DDs global stakeholder commenting period	2011-09-14
On-site visit	2011-11-14 to 2011-11-19
Draft reporting finalised	2011-12-22
Final reporting finalised	2012-11-14
Technical review on final reporting finalised	2012-11-14

3.2 Contract review

To assure that

- the PoA falls within the scopes for which accreditation is held,
- the necessary competences to carry out the validation can be provided,
- Impartiality issues are clear and in line with the CDM accreditation requirements,

a contract review was carried out before the contract was signed.

3.3 Appointment of team members and technical reviewers

On the basis of a competence analysis and individual availabilities a verification team, consistent of one team leader and 2 additional team members, were appointed. Furthermore also the personnel for the technical review and the final approval were determined.

The list of involved personnel, the tasks assigned and the qualification status are summarized in the table 3-2 below.

Table 3-2: Involved Personnel

	Name	Company	Function ¹⁾	Qualification Status ²⁾	Scheme competence	Technical competence ⁴⁾	Host country Competence	On-site visit
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Yan Tao	TÜV NORD China	TL	LA	<input checked="" type="checkbox"/>	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Li Yongjun	TÜV NORD China	TM ^{A)}	SA	<input checked="" type="checkbox"/>	1.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Walter, Ulrich	TÜV NORD Cert GmbH	TM ^{A)}	LA	<input checked="" type="checkbox"/>	1.1, 1.2, 15.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	Wang Jingyi	TÜV NORD China	OT ^{B)}	T	<input type="checkbox"/>	-	<input checked="" type="checkbox"/>	-
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Winter, Stefan	TÜV NORD Cert GmbH	TR ^{B)}	SA	<input checked="" type="checkbox"/>	1.1, 1.2, 15.2	<input type="checkbox"/>	-
<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	Stöhr, Christina	TÜV NORD Cert GmbH	TR ^{B)}	LA	<input checked="" type="checkbox"/>	1.2	<input type="checkbox"/>	-
<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Schubert, Dr. Jochen	TÜV NORD Cert GmbH	FA ^{B)}	SA	<input checked="" type="checkbox"/>	1.2	<input type="checkbox"/>	-

¹⁾ TL: Team Leader; TM: Team Member; TR: Technical review; OT: Observer-Team; OR: Observer-TR; FA: Final approval

²⁾ GHG Auditor Status: A: Assessor; LA: Lead Assessor; SA: Senior Assessor; T: Trainee; TE: Technical Expert

³⁾ GHG auditor status (at least Assessor)

⁴⁾ As per S01-MU03 or S01-VA070-A2 (such as 1.1, 1.2, ...)TA 1.2: Energy generation from renewable sources.

^{A)} Team Member: GHG auditor (at least Assessor status), Technical Expert (incl. Host Country Expert or Verification Expert), not ETE

^{B)} No team member

The team leader contributed to the review of documents, the assessment of the project activity and to the preparation of this report under the leadership of the team leader. Technical Experts contributed to the assessment of special aspects of the project activity, e.g. technical or host country aspects.

In order to qualify further personnel the project team was accompanied by observers and/or trainees as indicated in the table above. They are usually not considered as team members. Statements of competence for the above mentioned team members are enclosed in annex 7 of this report

3.4 Consideration of Public Stakeholder Comments

Acc. to the modalities and procedures the draft POA-DDs, as received from the project participants, has been made publicly available on the dedicated UNFCCC CDM website prior to the validation activity commenced. Stakeholders have been invited to comment on the POA-DD within the 30 days public commenting period.

In case comments were received, they are taken into account during the validation process. The comments and the discussion of the same are documented in annex 5 of this report.

3.5 Validation Protocol

In order to ensure consideration of all relevant assessment criteria, a validation protocol is used. The protocol shows, in a transparent manner, criteria and requirements, means of validation and the results from pre-validating the identified criteria. The validation protocol reflects the generic CDM requirements each CDM project has to meet as well as PoA specific issues as applicable. The validation protocol serves the following purposes:

- It organises, details and clarifies the requirements that a PoA is expected to meet;
- It ensures a transparent validation process where the validating entity will document how a particular requirement has been validated and the result of the determination.

The validation protocol as described in Figure 1.

Figure 1:Validation protocol tables

Validation Protocol Table A-1: Requirement checklist				
Checklist Item	Validation Team Comment	Reference	Draft Conclusion	Final Conclusion
<i>The checklist items in Table A-1 are linked to the various requirements the project should meet. The checklist is organised in various sections. Each section is then further sub-divided as per the requirements of the topic and the individual project activity.</i>	<i>The section is used to elaborate and discuss the checklist item in detail. It includes the assessment of the validation team and how the assessment was carried out. The reporting requirements of the VVM shall be covered in this section.</i>	<i>Gives reference to the information source on which the assessment is based on</i>	<i>Assessment based on evidence provided if the criterion is fulfilled (OK), or a CAR, CL or FAR (see below)is raised. The assessment refers to the draft validation stage.</i>	<i>In case a corrective action or a clarification the final assessment at the final validation stage is given.</i>

The completed validation protocol is enclosed in Annex 1 to this report.

3.6 Review of Documents

The published POA-DDs (draft) and supporting background documents related to the programme design and baseline were reviewed.

Furthermore, the validation team used additional documentation by third parties like host party legislation, technical reports referring to the programme design or to the basic conditions and technical data.

3.7 Follow-up Interviews

The validation team has carried out interviews during the period of 2011-11-14 to 2011-11-19 in order to assess the information included in the programme documentations and to gain additional information regarding the compliance of the PoA with the relevant criteria applicable for CDM.

During validation the validation team has performed interviews to confirm selected information and to resolve issues identified in the document review. The main topics of the interviews are summarized in table 3-3.

Table 3-3: Interviewed persons and interview topics

Interviewed Persons / Entities	Interview topics
1. Representatives from Project participant ^{/IM01/}	- Chronological description of the programme activity with documents of key steps of the implementation.
2. Representatives from Project consultant ^{/IM01/}	- Current status of programme design
3. Representatives from Gansu Province Development and Reform Commission ^{/IM02/}	- Technical details of the programme realization, programme feasibility, designing, operational life time, monitoring of the programme
4. Representatives from Gansu Province Environmental Protection Bureau ^{/IM02/}	- Host Government Approval
5. Representatives from Gansu Province Rural Energy Office ^{/IM02/}	- Approval procedures and status
6. Representatives from the local Rural Energy Offices of Gansu province ^{/IM02/}	- Monitoring and measurement equipment and system
7. Representatives from the stakeholders ^{/IM02/}	- Financial aspects
	- Crediting period
	- Programme activity starting date
	- CER allocation / ownership
	- Baseline study assumptions
	- Additionality
	- Sustainable development issues
	- Monitoring of CPAs
	- Analysis of local stakeholder consultation
	- Roles & responsibilities of the project participants w.r.t. programme management, monitoring and reporting
	- National Legislation
	- Editorial issues of the POA-DD and CPA-DDs

A comprehensive list of all interviewed persons is part of section 7 'References'.

3.8 Project comparison

The validation team has compared the proposed PoA activity with similar PoA or CDM projects / technology that have similar or comparable characteristics and with similar projects in the host country in order to achieve additional information esp. regarding:

- Programme technology
- Additionality issues
- Reasons for reviews, requests for reviews and rejections within the CDM registration process.

3.9 Resolution of Clarification and Corrective Action Requests

3.9.1 Definition

A **Corrective Action Request (CAR)** will be established where:

- mistakes have been made in assumptions, application of the methodology or the programme documentation which will have a direct influence on the programme results,
- the requirements deemed relevant for validation of the PoA with certain characteristics have not been met or
- there is a risk that the programme would not be registered by the UNFCCC or that emission reductions would not be able to be verified and certified.

A **Clarification Request (CL)** will be issued where information is insufficient, unclear or not transparent enough to establish whether a requirement is met.

A **Forward Action Request (FAR)** will be issued when certain issues related to programme implementation should be reviewed during the first verification of each CPA.

3.9.2 Draft Validation

After reviewing all relevant documents and taken all other relevant information into account, the validation team issues all findings in the course of a draft validation report and hands this report over to the project participant in order to respond on the issues raised and to revise the programme documentations accordingly.

3.9.3 Final Validation

The final validation starts after receiving the proposed corrective actions (CAs) to the CARs, CLs and FARs from the project participant. The project participant has to reply on all CARs, CLs and FARs and the requests are “closed out” by the validation team in case the response is assessed as sufficient. In case of raised FARs the project participant has to respond on this, identifying the necessary actions to ensure that the topics raised in this finding are likely to be resolved at the latest during the first

verification of each CPA. The validation team has to assess whether the proposed action is adequate or not.

In case the findings from CARs and CLs cannot be resolved by the project participant or the proposed action related to the FARs raised cannot be assessed as adequate, no positive validation opinion can be issued by the validation team.

The CAR(s) / CL(s) / FAR(s) are documented in chapter 4.

3.10 Technical review

Before submission of the final validation report a technical review of the whole validation procedure is carried out. The technical reviewer is a competent GHG auditor being appointed for the scope this PoA falls under. The technical reviewer is 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 validation opinion and the topic specific assessments as prepared by the validation team leader may be confirmed or revised. Furthermore reporting improvements might be achieved.

3.11 Final approval

After successful technical review of the final report an overall (esp. procedural) assessment of the complete validation will be carried out by a senior assessor located in the accredited premises of TÜV NORD.

Only after this step the request for registration can be started (in case of a positive validation opinion).

4 VALIDATION FINDINGS

In the following table the findings from the desk review of the published POA-DDs, visits, interviews and supporting documents are summarised:

Table 4-1: Summary of CARs, CLs and FARs issued

Validation topic ¹⁾	No. of CAR	No. of CL	No. of FAR
CDM-POA-DD			
General description of the programme of activities (PoA-A) <ul style="list-style-type: none"> - Programme title and description - PoA Operating and implementing framework - Policy/measure or stated goal of the PoA - Confirmation of voluntary action - Coordinating/managing entity and Participation - Communication with the Board - PP in relation to the PoA - Technical description of the PoA - PoA boundary and locations - Description of a typical CPA - Eligibility criteria for CPA inclusion - Description of PoA GHG emission reduction - Additionality demonstration of the PoA - Operational, management and monitoring plan of the PoA - Public funding of the PoA - POA-DD editorial and consistency aspects 	8	3	0
Duration of the PoA (PoA-B)	1	0	0
Environmental analysis (PoA-C)	1	1	0
Stakeholder Comments (PoA-D)	0	0	0
Application of baseline and monitoring methodology (PoA-E) <ul style="list-style-type: none"> - Application of the Methodology to a typical CPA - Sources and gases within the CPA boundary - Baseline identification - Additionality demonstration of a CPA - Emission reductions Estimation of a CPA - Methodological choices - Equations, ex-ante parameters 	7	2	0

Validation topic ¹⁾	No. of CAR	No. of CL	No. of FAR
<ul style="list-style-type: none"> - To be reported CPA data and parameters - Monitoring Methodology and Monitoring Plan - To be monitored CPA data and parameters - CPA monitoring plan 			
Sum	17	6	0
Generic CDM-CPA-DD			
Overall Consistency with finalized PoA-DD	1	0	0
General description of the CDM programme activity (CPA-A) <ul style="list-style-type: none"> - Title and description of the CPA - Entity/individual responsible for the CPA - Technical Description of the CPA - Identification of the CPA - Duration and crediting period of CPA - Estimated emission reduction - Public funding - Confirmation of de-bundling in case of SSC - Confirmation of no double counting - CPA-DD editorial and consistency aspects 	0	0	0
Eligibility of CPA and Estimation of Emission Reductions (CPA-B) <ul style="list-style-type: none"> - CPA reference to the PoA - Justification to CPA inclusion eligibility criteria - Demonstration of CPA additionality - Confirmation of CPA boundary - CPA Emission Reduction - Ex-ante CPA Data an parameters - Ex-ante CPA Emission reduction calculation - Summary of Ex-ante estimation - CPA Monitoring Plan 	0	0	0
Environmental analysis (CPA-C)	0	0	0
Stakeholder Comments (CPA-D)	0	0	0

Validation topic ¹⁾	No. of CAR	No. of CL	No. of FAR
SUM	1	0	0

¹⁾ The letters in brackets refer to the finding titles, corresponding sections in PoA-DD and generic CPA-DD and validation protocol

Table 4-2: PoA-PDD versions used for assessments

Version No.	Assessment Round
PoA-DD version 01 dated 2011-08-30 (GSP)	DOE Findings
PoA-PDD Version 02 dated 2012-04-11	DOE Assessment # 1
PoA-PDD Version 03 dated 2012-09-19	DOE Assessment # 2

The following tables include all raised CARs, CLs and FARs. For an in depth evaluation of all validation items it should be referred to the validation protocols (see Annex 1 of this report).

The findings of validation process are summarized in the tables below.

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-A1: Policy/measure or stated goal of the PoA and confirmation of voluntary action</p> <p>In section A.2 of the PoA-DD, the description of the policy/measure or stated goal that the PoA seeks to promote, is not complete. Thus, the detailed information is not provided in section A.2 in a transparent and sufficient manner as per the paragraph 6(c) of EB 55 Annex 38.</p> <p>In the PoA-DD, the section A.2 of the PoA-DD states that the coordinating/managing entity confirms that the PoA is a voluntary action. But, the confirmation by the CME that the proposed PoA is a voluntary action, is not provided to DOE as per the paragraph 6(d) of EB 55 Annex 38.</p>			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<p>1. The following description about stated goal of the proposed PoA was added in section A.2 of the PoA-DD.</p> <p>Stated goal of the proposed PoA is to support the building of biogas digester system and biogas recovery system at household/small farm level in Gansu Province, and avoid the methane emitted to atmosphere and fossil fuels utilization for cooking in the baseline scenario, so realize the reduction of greenhouse gases. More detailed information was added in section A.2.</p> <p>2. This PoA is a scheme developed by Lanzhou Hualong Poultry Breeding Co. (the CME) to promote the building of biogas digester system and biogas recovery system at household/small farm level in Gansu Province. At present, there is no mandatory law to enforce households/small farms to set up biogas digester and biogas recovery system in China. Therefore, this PoA is not implementing any mandatory policy or regulation of China. Households/small farms also participate in this PoA on a voluntary basis.</p> <p>The Confirmation that proposed PoA is a voluntary action by the CME is based on the Board Decision dated 20/07/2011.</p>		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. The section A.2 of the PoA-DD has been checked and the following are confirmed by the validation team:</p> <p>1. The description of the policy/measure or stated goal is complete, reliable and reasonable. The stated goal of the proposed PoA is to support the building of biogas digester system at household/small farm level in Gansu Province so as to recover and utilize the methane. To realize the stated goal, two measures will be adopted by the CME of Lanzhou Hualong Poultry Breeding Co.: 1) offering the financial support generated by carbon credits to the households/small farmers; 2) providing the technical support by the CME and local Rural Energy Office to the households/small farmers. The same is consistent with the onsite interviews with the representatives from the CME^{/IM01/}, Gansu Province DRC^{/IM02/}, Gansu Province Environmental Protection Bureau^{/IM02/}, Gansu Province Rural Energy Office^{/IM02/} as well as the PingLiang City Rural Energy Office^{/IM02/} and Jingning County Rural Energy Office^{/IM02/}.</p> <p>2. It is confirmed in the PoA-DD that the proposed PoA is a voluntary action by the CME and that there is no mandatory policy/regulation to enforce households/small farms to set up biogas digester. The validation team has checked the Board Decision of CME dated 2011-07-20^{/CONF/} and interviewed representatives from CME^{/IM01/} as well as the officials from local DNR^{/IM02/} and local Environmental Protection Bureau^{/IM02/}. Thus, it can be confirmed by the validation team that the proposed PoA is a voluntary action by the CME.</p> <p>Thus, this CAR is closed.</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Related Checklist(s)	PoA-DD Checklist A.2.3.			
Conclusion	<p><i>Tick the appropriate checkbox</i></p> <p><input type="checkbox"/> To be checked during the first periodic verification</p> <p><input checked="" type="checkbox"/> Appropriate action was taken</p> <p><input checked="" type="checkbox"/> Project documentation was corrected correspondingly</p> <p><input type="checkbox"/> Additional action should be taken</p> <p><input checked="" type="checkbox"/> The project complies with the requirements</p>			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A2	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding	<p><i>Describe the finding in unambiguous style; address the context (e.g. section)</i></p> <p>CAR PoA-A2: LoAs and authorization letter</p> <p>The LoAs from host Party (China) and Annex I Party (United Kingdom of Great Britain and Northern Ireland) is outstanding.</p> <p>Also, the letter of authorization by China for the coordination of CME (Lanzhou Hualong Poultry Breeding Co.) is outstanding.</p>			
Corrective Action #1	<p><i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i></p> <p>The China LOA and UK LOA have been provided.</p> <p>The China LOA confirmed that Lanzhou Hualong Poultry Breeding Co. was authorized as China's participant to voluntarily participated in and carry out the PoA as the Coordinating/Managing Entity.</p>			
DOE Assessment #1	<p><i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i></p> <p>OK. Both LoAs have been received.</p> <p>The project participants are Lanzhou Hualong Poultry Breeding Co. from P.R. China and A&T Carbon Asset Co., Limited from United Kingdom of Great Britain and Northern Ireland. The host Party is P.R. China and the participating Annex I Party is United Kingdom of Great Britain and Northern Ireland. Both Parties have ratified the Kyoto Protocol and are the Parties to the Kyoto Protocol.</p> <p>The participation of Lanzhou Hualong Poultry Breeding Co. has been approved by P.R. China in the LoA^{/HCA/}. The participation of A&T Carbon Asset Co., Limited has been approved by United Kingdom of Great Britain and Northern Ireland in the LoA^{/LOA/}. The name of Lanzhou Hualong Poultry Breeding Co. and A&T Carbon Asset Co., Limited are in a consistent manner listed in section A.3 and annex 1 of the PoA-DD^{/PoA-DD/}. TÜV NORD can confirm that no entities other than one approved as project participant in the LoA^{/HCA/} are included in the PoA-DD^{/PoA-DD/}.</p> <p>TÜV NORD has received the Chinese LOA form the project participant. By checking the LoA issuance link^{/dna/} from DNA of P.R. China, TÜV NORD has verified the authenticity and validity of LoA^{/HCA/}.</p> <p>TÜV NORD has received UKs LoA. The website^{/dna/} of the DNA of United Kingdom of Great Britain and Northern Ireland has been checked by TÜV NORD but the PoA has not been included yet in the List of CDM Projects Approved by the UK DNA (updated on 6 December 2011). During the course of the validation TÜV NORD</p>			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A2	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>has not found elements to doubt the authenticity of the LoA^{/LOA/} and thus can confirm the authenticity and validity of this LoA^{/LOA/}.</p> <p>Therefore, TÜV NORD considers both LoAs are in accordance with the paragraphs 45-48 of the Validation and Verification Manual version 1.2^{/VVM/}.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist A.2.4, A.3.4, A.3.5, A.3.6, A.3.7		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A3	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-A3: The expected annual value of ERs</p> <p>In the PoA-DD, the information regarding the annual average ERs of the PoA or the 1streal case CPA over the first crediting period, has not been indicated.</p>		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<p>The information regarding the estimated annual average CERs of the 1streal case CPA over the first crediting period has been added in the PoA-DD.</p>		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. In section A.2 of the PoA-DD, the annual average ERs of 8,082 tCO₂/year for the 1streal case CPA over the first crediting period has been included, and it is in accordance with the CPA-DD. Therefore this point is deemed OK.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist A.2.5.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A4	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the</i>	<p>CL PoA-A4: CME and Annex I Party</p> <p>In section A.3 of the PoA-DD, the name of CME is not indicated as</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A4	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR
<i>context (e.g. section)</i>	per the CDM-SSC-PoA-DD form version 01. Also, the name of Annex I Party is not stated in full name. Also, the abbreviation of CME is not consistently stated in the PoA-DD.		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<ol style="list-style-type: none"> 1. The name of CME was indicated in section A.3 of the PoA-DD. 2. The name of Annex I Party was revised to the full name. 3. One abbreviation of CME was applied in the POA-DD. 		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. The PoA-DD was checked by the validation team and the following can be confirmed:</p> <ol style="list-style-type: none"> 1. The CME of the PoA is clearly indicated as Lanzhou Hualong Poultry Breeding Co. in section A.3 of the PoA-DD. 2. United Kingdom of Great Britain and Northern Ireland is correctly stated instead of United Kingdom in section A.3 of the PoA-DD. 3. The abbreviation CME was consistently applied in the PoA-DD. <p>Thus, this CL is closed.</p>		
Related Checklist(s)	PoA-DD Checklist A.3.1.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A5	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-A5: MoC</p> <p>At the time of writing the validation report the MoC has not yet been submitted.</p>		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	The MoC was provided.		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. The MoC dated 2012-02-06 was checked by the validation team and all requirements^{/MOCP/} below have been fulfilled by the MoC:</p> <ol style="list-style-type: none"> 1. The MoC confirms that the CME of the PoA communicates with the CDM Executive Board; 2. The CME is either sole or joint focal point for each area of communication; 3. Number of joint focal points for the PoA is no more than 5, or equal to the number of host Parties if greater than 5. 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A5	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
	<p>4. No modifications to the template/form have been made;</p> <p>5. Each document (MOC statement including the Annex 1) have been clearly dated;</p> <p>6. Title of the project and names of CME and project participants and focal points have been fully consistent with those indicated in all other project documentation submitted at the request for registration stage (e.g., PDD, LOAs, etc.);</p> <p>7. Focal point scopes have been clearly and correctly indicated;</p> <p>8. Contact details and specimen signatures of focal point entities including those of project participants in Annex 1 have been correctly entered.</p> <p>Thus, this CAR is closed.</p>			
Related Checklist(s)	PoA-DD Checklist A.3.3.			
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A6	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-A6: Boundary</p> <p>In section A.4.1.2of the PoA-DD, the following issues were found:</p> <p>1. The project boundary was defined as Gansu province containing 14 cities/prefectures/regions: Lanzhou, Jiayuguan, Jinchang, Baiyin, Tianshui, Wuwei, Zhangye, Jiuquan, Pingliang, Qingyang, Dingxi, Longnan, Linxia Hui Minority Autonomous prefecture, Gannan Zang Minority Autonomous prefecture. The same is verified by the validation team by checking the evidence. However, the cities shown in figure 1 of PoA-DD are not consistent with these 14 cities.</p> <p>2. The quality of the maps is not very good.</p>			
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<p>1. The programme is implemented in Gansu Province, so the entire Gansu Province administrative area delineates the boundary of the Programme. The figure 1 in the PoA-DD was not clearly, so it was deleted for consistency.</p> <p>2. The quality of the maps was increased to more clearly.</p>			
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. Section A.4.1.2of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <p>1. The POA-DD includes a definition of the boundary for the PoA in terms of a geographical area. The boundary of the PoA is defined as Gansu province in terms of geographical area, which is consistent with the public information on the Wikipedia</p>			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A6	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
	<p>website^{/wiki/}. The information regarding the cities of Gansu province was deleted in the revised PoA-DD. The validation team confirms that the boundary definition at province level is reasonable and consistent with paragraph 6(b) of EB55 annex 38.</p> <p>2. The updated figure 1 is understandable.</p> <p>Thus, this CAR is closed.</p>			
Related Checklist(s)	PoA-DD Checklist A.4.1.2.1 and A.4.1.2.2.			
Conclusion <i>Tick the appropriate checkbox</i>	<div><input type="checkbox"/> To be checked during the first periodic verification</div> <div><input checked="" type="checkbox"/> Appropriate action was taken</div> <div><input checked="" type="checkbox"/> Project documentation was corrected correspondingly</div> <div><input type="checkbox"/> Additional action should be taken</div> <div><input checked="" type="checkbox"/> The project complies with the requirements</div>			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A7	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	CL PoA-A7: Technology In sectionA.4.2.1of the PoA-DD, the following issues were found: 1. The PP did not give a technical description of digesters, cooking stoves and lightings used in the CPA. 2. It is stated that the treated slurry and residue can be used as pesticide and fertilizer respectively. Clarification on the pesticide application of the slurry and residue is missing.			
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	1. The technical description of digesters, cooking stoves and lightings used in the CPA was demonstrated in the revised PoA-DD. 2. The treated slurry and residue will be applied to land as fertilizer. PDD was revised. Source: http://www.greatwuyi.com/mbrb/2006-12/14/content_21296.htm .			
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	OK. The section A.4.2.1of the PoA-DD was checked by the validation team and the following can be confirmed: 1. The technical description of digesters, cooking stoves and lightings are complete and reliable, which is consistent with the National or Sector’s standards ^{/Standr/} and onsite inspection ^{/IM01/} by the validation team. 2. In the revised PoA-DD, the treated slurry and residue is only applied to land as fertilizer. The same is consistent with the onsite interview ^{/IM01/} by the validation team and the public information regarding the utilization of treated slurry and residue ^{/minbei/} .			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A7	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL	<input type="checkbox"/> FAR
	Thus, this CL is closed.			
Related Checklist(s)	PoA-DD Checklist A.4.2.1.2.			
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A8	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-A8: eligibility criteria of inclusion and the management system of CME</p> <p>In sectionA.4.2.2of the PoA-DD, the eligibility criteria have been described but not comprehensive. Thus, the section A.4.2.2of the PoA-DD is not updated as per the (a)-(l) of paragraph 14 of <i>Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities (version 01.0, EB65 Annex 3)</i>. During this revision, the following requirements required by the validation team should be fulfilled:</p> <ol style="list-style-type: none">Each of (a)-(l) of paragraph 14 of EB65 Annex 3 is not clearly described separately.The eligibility criteria is not verifiable.In case where the documentation is required by (a)-(l) of paragraph 14 of EB65 Annex 3 is only available at CPA inclusion stage, the description of the expected document is not included in the PoA-DD. <p>Moreover, according to the CPA inclusion validation requirement for DOE stipulated by the paragraph 18 of EB65 Annex 3, the competencies and the management system of CME should be substantiated by CME at the time of validation of PoA as per the (a)-(g) of paragraph 17 of EB65 Annex 3. Thus, each of (a)-(g) of paragraph 17 of EB65 Annex 3 is not clearly explained and documented in sectionA.4.2.2 of PoA-DD.</p>			
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<ol style="list-style-type: none">The eligibility criteria of CPA inclusion was revised as per <i>Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities (version 01.0, EB65 Annex 3)</i>. And the description of the expected document was also included in the PoA-DD.As per the (a)-(g) of paragraph 17 of EB65 Annex 3, the competencies and the management system of CME was substantiated and added. More detailed was substantiated in			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A8	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
	section A.4.2.2 of the PoA-DD.			
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. The revised PoA-DD was checked by the validation team and the following can be confirmed:</p> <ol style="list-style-type: none">1. In section A.4.2.2, a complete list of CPA Eligibility Criteria has been set up as per the (a)-(l) of paragraph 14 of EB65 Annex 3, and is deemed appropriate and sufficient. For detailed assessment, please refer to ANNEX 6 of this validation report.2. In section A.4.2.2, the competencies and the management system of CME have been substantiated as per the (a)-(g) of paragraph 17 of EB65 Annex 3, and is deemed appropriate and sufficient. <p>Thus, this CAR is closed.</p>			
Related Checklist(s)	PoA-DD Checklist A.4.2.2.1.			
Conclusion <i>Tick the appropriate checkbox</i>	<div><input type="checkbox"/> To be checked during the first periodic verification</div> <div><input checked="" type="checkbox"/> Appropriate action was taken</div> <div><input checked="" type="checkbox"/> Project documentation was corrected correspondingly</div> <div><input type="checkbox"/> Additional action should be taken</div> <div><input checked="" type="checkbox"/> The project complies with the requirements</div>			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A9	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	CL PoA-A9: Additionality demonstration for PoA In sectionA.4.3of the PoA-DD, the demonstration of the PoA is correctly carried out. But, the following is found: The paragraph 73 of EB47 report is selected as the premise that the additionality of PoA can be demonstrated only based on the CPA level, is not appropriate in accordance with EB 65 annex3. Thus, the revision is requested.			
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	The additionality demonstration was revised according to paragraph 7 of EB 65 annex3. The relevant description in section A.4.3 was revised accordingly.			
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	OK. Section A.4.3of the PoA-DD was checked by the validation team and the following can be confirmed: Additionality was demonstrated as per the paragraph 7 of EB 65 annex3 by establishing that in the absence of CDM, none of the implemented CPAs would occur. Thus, this CL is closed.			
Related Checklist(s)	PoA-DD Checklist A.4.3.			
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A9	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL	<input type="checkbox"/> FAR
	<input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-A10	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-A10: Operational and management arrangements</p> <p>In section A.4.4.1 of the PoA-DD, the operational and management arrangements established by CME for the implementation of the PoA include four aspects. But, the following issues for each of these four aspect have been identified:</p> <p>Aspect I, A record keeping system for each CPA under the PoA;</p> <ul style="list-style-type: none">➤ Whether the records and information relative to the monitored parameters are kept is not indicated.➤ Whether each household/small-farm or biogas digester within the PoA has its own exclusive ID is not clearly indicated.➤ The update frequency of the information in the database is not specified.➤ The appropriate provisions are not considered for data management including responsibilities, what records to keep, storage area of records and how to process performance documentation.➤ There is no the data archiving provisions for the project activity and no provisions are made to archive data for the whole crediting period + 2 years. <p>Aspect II, A system/procedure to avoid double accounting e.g. to avoid the case of including a new CPA that has been already registered either as a CDM project activity or as a CPA of another PoA;</p> <p>The implementing entity of a CPA shall confirm with a written statement or enter into a respective contractual arrangement with the CME providing that:</p> <ol style="list-style-type: none">1. The CPA and all biogas systems to be installed under the CPA have not been and will not be registered as a single CDM project activity or as a CPA under another PoA.2. The implementing entity is aware that the CPA will be subscribed to the present PoA.3. In the event that the CPA implementer is distinct from the CME: The implementing entity cedes its rights to claim and own emission reductions under the Clean Development Mechanism of the UNFCCC to the managing entity of the present PoA. <p>However, the above statements in the PoA-DD are deemed</p>			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A10	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>unrealistic and unreasonable due to the following facts:</p> <ul style="list-style-type: none"> ➤ For this PoA, the implementing entity of CPA is also the CME of Lanzhou Hualong Poultry Breeding Co. as per the real case CPA. The written statement by the CME regarding point 1 is not convincing because the CME is only the coordinator but not the actual implementer of the biogas digester. The point 1 is accepted only if the authorization by all households/small farms to the implementing entity of CPA is added as a part of the operational and management plan. <p>Furthermore, as per the NDRC's notification <i>on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202)</i>, Gaisu Province Rural Energy Office is authorized by NDRC to represent all households/small farms and sign the CDM agreement with CME. This agreement signed on 2011-10-25 has already been validated by the validation team during onsite visit. This aspect is not taken into account. (e.g. the written confirmation about the double counting by the Gaisu Province Rural Energy Office).</p> <ul style="list-style-type: none"> ➤ Point 2 is not relevant to the aspect II. ➤ Regarding point 3, the implementing entity is different from the CME. The authorization by all households/small farms to this implementing entity is missing as a part of the operational and management plan. <p>Aspect III, the SSC-CPA included in the PoA is not a de-bundled component of another CDM programme activity (CPA) or CDM project activity.</p> <ul style="list-style-type: none"> ➤ The installed capacity of each biogas digester is not indicated. <p>Aspect IV, the provisions to ensure that those operating the CPA are aware of and have agreed that their activity is being subscribed to the PoA;</p> <ul style="list-style-type: none"> ➤ "the criterion (3) described in Section A.4.4.2" is mentioned in this aspect, but, there is no criterion (3) in section A.4.4.2. <p>The existing (if applicable) and expected relevant evidence is not described.</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A10	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	Aspect I, A record keeping system for each CPA under the PoA A record keeping system was updated. <ul style="list-style-type: none"> ➤ The records and information relative to the monitored parameters are included in the database. ➤ Unique biogas digester registration number which is the unique ID number of the head of the household is included in the database. ➤ The update frequency of the information is every one month. ➤ More detailed information regarding responsibilities, what records to keep, storage area of records and how to process performance documentation was elaborated in the CPA Inclusion Manual implemented by the CME. ➤ All the paper and electronic documents obtained by the CME will be filed and registered in the library system during the PoA crediting period plus 2 years. Aspect II, A system/procedure to avoid double accounting <ul style="list-style-type: none"> ➤ The implementing entity of a CPA is defined as the CME, i.e. Lanzhou Hualong Poultry Breeding Co.. A&T Carbon Asset Co., Limited and the actual implementing entities of the project activities under the CPA are households/small farms. The households/small farms will confirm with a written statement or enter into a respective contractual arrangement with the CME. As per the NDRC (National Development and Reform Commission, China DNA)'s notification on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202), Gansu Province Rural Energy Department is authorized by NDRC to represent all households located in the Gansu province and sign the CDM agreement with CME. So, the written confirmation about the double counting by the Gansu Province Rural Energy Department was also provided to DOE for further check. ➤ The households/small farms will confirm with a written statement or enter into a respective contractual arrangement with the CME to confirm they are aware and agree with the inclusion of the CPA to the proposed PoA. The household should be aware they have been added into the present PoA, and cannot apply for other PoA or CDM project, so the point 2 should be kept. ➤ .The authorization by all households/small farms to this implementing entity was added as a part of the operational and management plan. Aspect III, the SSC-CPA included in the PoA is not a de-bundled component of another CDM programme activity (CPA)		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A10	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>or CDM project activity.</p> <p>The demonstration regarding the de-bundled analysis was updated. The installed capacity of each biogas digester was added into PoA-DD.</p> <p>Aspect IV, the provisions to ensure that those operating the CPA are aware of and have agreed that their activity is being subscribed to the PoA;</p> <p>According to the eligibility criteria (2) described in Section A.4.2.2, the implementer of the project activities under the CPA is aware of and agrees that their activity is being subscribed to the PoA.</p> <p>The PDD was revised accordingly.</p>		
<p>DOE Assessment #1</p> <p><i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i></p>	<p>OK. Section A.4.4.1 of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <p>Aspect I, A record keeping system for each CPA under the PoA</p> <ul style="list-style-type: none"> ➤ OK. The records and information about the monitoring parameters is correctly included in section A.4.4.1. ➤ A unique biogas digester registration number is correctly included in section A.4.4.1. ➤ The update frequency of the information is correctly included in section A.4.4.1. ➤ OK. Detailed information is correctly included in section A.4.2.2 as per the paragraph 17 of EB65 Annex 3. Also, the CPA Inclusion Manual^{CDM} includes the information of data management including responsibilities, what records to keep, storage area of records and how to process performance documentation, which was checked by the validation team. ➤ The data archiving is correctly included in section A.4.4.1. <p>Aspect II, A system/procedure to avoid double accounting</p> <ul style="list-style-type: none"> ➤ OK. The implementing entity of a CPA is the CME of Lanzhou Hualong Poultry Breeding Co., A&T Carbon Asset Co., Limited and the households/small farms. The households/small farms will provide the written confirmations that the household/small farm is not and will not be part of another CDM project or programme activity. ➤ OK. This point is applicable and reasonable, as the households should be aware that they have been added to the present PoA. ➤ OK. The Gansu Province Rural Energy Office is authorized by NDRC to represent all households/small farms as per 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A10	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>NDRC's notification (Fai Gai Ban Qi Hou [2011] No.2202)/NDRCN/ and sign the CDM agreement with CME/CDA/. Thus, a written verification about the double counting by the Gansu Province Rural Energy Office will be provided to DOE during CPA inclusion.</p> <p>Aspect III, the SSC-CPA included in the PoA is not a de-bundled component of another CDM programme activity (CPA) or CDM project activity.</p> <ul style="list-style-type: none"> ➤ OK. The installed capacity limit of biogas digester and the emission reduction limit of biogas stove were added to the section A.4.4.1, which complies with "Guidelines on assessment of de-bundling for SSC project activities" (Ver. 03). <p>Aspect IV, the provisions to ensure that those operating the CPA are aware of and have agreed that their activity is being subscribed to the PoA;</p> <ul style="list-style-type: none"> ➤ OK. The written confirmations will be provided by all households/small farms to confirm that they are aware of and agrees with the inclusion of the CPA to the proposed PoA. <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist A.4.4.1., A.4.4.2, A.4.4.1.3, A.4.4.1.5, A.4.4.1.6, A.4.4.1.7, A.4.2.2		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A11	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-A11: Monitoring Plan</p> <p>For paragraph (ii) of section A.4.4.2 of the PoA-DD:</p> <p>The paragraph (ii) is only related to the system to avoid double counting and the verification status of all components of each CPA when the non-sampling is applied.</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-A11	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	More demonstration was added in the revised PoA-DD.		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. Section A.4.4.2 of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <p>The Project does not apply sampling as every CPA will be verified.</p> <p>The information regarding the system to avoid double counting and the verification status for each CPA were added to the section A.4.4.2, which was validated correct by the validation team.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist A.4.4.2.1 and A.4.4.2.2.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-B1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-B1: Start date of the PoA</p> <p>In section B.1 of the PoA-DD the following issues were found :</p> <p>The starting date of the PoA is as 2012-01-01 or the date of registration of the PoA, whichever is later. But, this date is not reasonable according to the validation schedule.</p>		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	The starting date of the PoA is revised to 01/01/2013 or the date of registration of the PoA, whichever is later.		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. Section B.1 of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <p>The submission date for PoA registration is estimated at 2012-11-20. The PoA is small-scale. Thus, the start date 01/01/2013 for the PoA is reasonable.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist B.1.1		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-C1	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CL PoA-C1:Environmental analysis level</p> <p>In section C.1 of the PoA-DD the environmental analysis is done at PoA level, but the justification is not provided.</p> <p>In section C.2 of the PoA-DD the non-necessity of an EIA is not substantiated.</p>		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<p>1) The justification of environmental analysis done at PoA level was provided in section C.1 of the PoA-DD.</p> <p>2) The non-necessity of an EIA issued by Gansu Environmental Protection Agency was provided.</p>		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. In sections C.1 and C.2 of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <ol style="list-style-type: none"> In section C1, the justification of environmental analysis at PoA is reasonable. As per the notification by NDRC on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202)^{/NDRCN/}, issued on 2011-09-13, the EIA of rural household biogas project should not be conducted and local province environmental bureau should issue the letter of exempting the EIA as the approval of EIA. The letter^{/EIAA/} of exempting the EIA for this PoA (Gan Huan Bian Ping Zi Di [2011] No.133) was issued by Gansu Environment Protection Bureau on 2011-09-30. In section C2, the non-necessity of conducting EIA for the PoA was sufficiently substantiated. As per the letter^{/EIAA/} of exempting the EIA for this PoA, EIA is unnecessary for this kind of PoA because use of biogas digester can improve the local environment but not bring any negative impact on local environment. <p>Thus, this CL is closed.</p>		
Related Checklist(s)	PoA-DD Checklist C.1.2.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-D1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-D1: Stakeholders' comments</p> <p>The following issues were found in section D of the PoA-DD:</p> <ol style="list-style-type: none"> Section D.1 of the PoA-DD does not include the justification on the choice of the PoA level at which the local consultation is 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-D1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>conducted.</p> <ol style="list-style-type: none"> The bulletin dated 2011-03-01 by Lanzhou Hualong Poultry Breeding Co. and the notification dated 2011-03-02 by Gansu Province Rural Energy Office, which were received during onsite visit regarding the stakeholder consultation process, are not clearly described in PoA-DD. Also, the relationship of the questionnaires with the bulletin and the notification is missing. The PoA-DD states that the notification was delivered to 14 counties/cities, but according to relevant evidence, the notification was sent to 67 counties. Thus, clarification is requested. It is not explained how the 90 questionnaires were distributed among Gansu province. The promoter for the questionnaires is not indicated in the PoA-DD. The stakeholder consultation questionnaires are not provided to DOE. The questions in the questionnaires are not summarized and no opinion is indicated in the PoA-DD. 		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<ol style="list-style-type: none"> The justification of stakeholder consultation done at PoA level was provided in section D.1 of the PoA-DD. The bulletin was published to notify the stakeholder around Gansu Province. The questionnaires were delivered to local residents by Local Rural Energy Office and also can be got by the residents themselves. The detailed description was added in section D.2 of the PoA-DD. With the supporting of Gansu Province Rural Energy Department, the bulletin was uploaded to the Gansu Rural Government Website. And the bulletin and matched questionnaires were delivered to 67 counties within 14 cities around Gansu Province on 02/03/2011. There are only 14 cities in the Gansu province, so the notification was delivered to 14 cities, the PDD was revised. During 03/2011 and 04/2011 the Local Rural Energy Office workers and CME workers went to countryside to distribute questionnaires, in the same time, some residents got the questionnaires from Local Rural Energy Office by themselves. The related description was added in the revised PoA-DD. The stakeholder consultation questionnaires were provided. Each of 7 questions in the questionnaires was summarized and for each question, the opinion of all the respondents (100%) was indicated in the PoA-DD. 		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. Section D of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <ol style="list-style-type: none"> In section D.1, the choice of the Local stakeholder consultation at the PoA level was sufficiently justified. Gansu Province Rural Energy Office and its affiliated local rural energy offices at county level, as the co-operators of CME, can make sure that 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-D1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>the stakeholder consultation process covers the entire Gansu province.</p> <p>2. In section D2, the bulletin dated 2011-03-01 and the notification dated 2011-03-02 were clearly described. There are two alternatives to obtain the questionnaire: a) the questionnaires were distributed by local rural energy offices among the households; b) the stakeholders go directly to the local rural energy offices and take the questionnaires. The same was verified by the relevant evidence^{/SHCL/}.</p> <p>3. In section D2, the bulletin and questionnaires were delivered to the local rural energy offices in 67 counties within 14 cities around Gansu Province on 02/03/2011, which is consistent with the notification by Gansu Province Rural Energy Office^{/SHCL/}.</p> <p>4. The implementer for the questionnaires distribution is the Local Rural Energy Office workers and CME workers. There are two alternatives to obtain the questionnaire: a) the questionnaires were distributed by local rural energy offices among the households; b) the stakeholders go directly to the local rural energy offices and take the questionnaires. The same was verified by the validation team through checking the relevant bulletin, notification, onsite consultation photos and questionnaires^{/SHCL/}.</p> <p>5. 90 copies of stakeholder consultation questionnaires were received.</p> <p>6. There are 7 questions in the questionnaires^{/SHCL/}. In section D3, each of 7 questions in the questionnaires is fully summarized.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist D.1.2, D.2.1, D.3.1 and D.4.1.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-E1: Applied methodologies</p> <p>In the PoA-DD the combined methodologies of AMS-I.I. version 02 and AMS-III.R. version 02 were applied to the PoA and approved by EB. Because AMS-III.R. version 02 quotes the AMS-III.D, the PoA also applies the AMS-III.D. However, the version 17 of the applied AMS-III.D is not the latest. Thus, the</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<p>PoA-DD should be updated as per AMS-III.D. version 18.</p> <p>All the adopted methodology were updated to the latest one:</p> <ul style="list-style-type: none"> ➤ AMS-I.I was updated from version 02 to 04(EB 68); ➤ AMS-III.R. was updated from version 02 to 03 (EB 69); ➤ AMS-III.D was updated from version 17 to 18(EB 63); <p>The related information was updated accordingly.</p>		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. The section E.1 of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <ul style="list-style-type: none"> ➤ The latest AMS-I.I. version 04.0 was applied in the PoA-DD instead of AMS-I.I. version 02. ➤ The latest AMS-III.D. version 18 was applied in the PoA-DD instead of AMS-III.D. version 17. ➤ The latest AMS-III.R. version 03 was correctly applied. <p>The PoA applies approved, applicable and valid version of each CDM methodology which is identical with one available on the UNFCCC website. The PoA-DD was checked by the validation team and the relevant information in the PoA-DD was updated.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist E.1.1.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E2	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-E2:Methodologies applicability</p> <p>The following issues were found in section E.2 of the PoA-DD :</p> <ol style="list-style-type: none"> 1. The justification of combination of AMS-I.I. and AMS-III.R. is not conducted as per the paragraph 28 of EB 65 Annex 3. The version 15 of “General guidelines to SSC CDM methodologies” used by the PoA-DD is not the latest version. 2. In the justification of application criterion 2 of AMS-III.R and application criterion 1 of AMS-I.I, it is defined that the biogas digesters is set up for individual households. But, in other parts of the PoA-DD, it is clearly indicated that the biogas digesters is also set up for small farms. Thus, clarification is requested. 3. For applicability criteria 4b) of AMS-III.R, the PP does not explain how plant design or operation management ensures 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E2	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	that in case of not using the biogas-utiliser (i.e. stove), biogas is captured and not uncontrolled emitted.		
	4. In the justification of application criterion 4 of AMS-I.I, the conclusion is not consistent with the justification result.		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	1. As per the paragraph 28 of EB 65 Annex 3, combinations of methodologies for a PoA are eligible if there is no cross effects between the technologies/measures applied. For the proposed PoA, only household biogas digester technologies will be used, and biogas generated will be used for cooking, so the combination of AMS-III.R and AMS-I.I is eligible. The above justification was added in PoA-DD. "General guidelines to SSC CDM methodologies" is updated to version 17. 2. There are two kinds of project activities in the proposed PoA. One is built household-based biogas digester. Another is installed biogas digester in the small farm and generated biogas be supplied to households nearby. All applicability criteria in the methodologies, the applied tools or any other methodology component referred to therein are sufficiently fulfilled by a typical CPA. A typical CPA has been demonstrated to be in accordance with all PoA specific stipulations and requirement mentioned in the methodologies and relevant tools/guidance. 3. Actually, biogas generated is not enough and for household, biogas is good fuel, which can instead of coal for cooking and save money for them. Once more biogas generated, household will use them to heat water. So emitting biogas to air is not possible for households. 4. PoA-DD was revised accordingly.		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	OK. Section E.2 of the PoA-DD was checked by the validation team and the following can be confirmed: 1. "General guidelines to SSC CDM methodologies" version 17 is applied in the PoA-DD instead of version 15. The combination of AMS-I.I. version 04.0 and AMS-III.R. version 03 for the PoA is eligible due to the following reasons: <ul style="list-style-type: none"> ➤ As per the paragraph 28 of EB 65 Annex 3, combinations of technologies/measures and/or methodologies for a PoA are eligible where it is demonstrated that there are no cross effects between the technologies/measures applied ➤ As per the footnote 10 of EB 65 Annex 3, Combinations of approved methodologies contained in the "General guidelines to SSC CDM methodologies" may be applied without further assessment of cross effects. ➤ As per the paragraph 11(a) of "General guidelines to SSC CDM methodologies" version 18, the combination of any one 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E2	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>of type III methodologies where activities lead to generation of methane with any one of type I methodologies for utilising the methane generated for generation of renewable, was approved by EB.</p> <p>2. In the justification of application criterion 2 of AMS-III.R, the target groups are households or small farms, which are consistent with the real situation of the PoA and with the criterion 2 of AMS-III.R. In the justification of application criterion 1 of AMS-I.I, the target groups are only the households, which are consistent with the real situation of the PoA and with criterion 1 of AMS-I.I.</p> <p>3. The biogas generated is not enough for the household's consumption and thus no related project emission happens.</p> <p>4. In the justification of application criterion 4 of AMS-I.I, the conclusion is "not applicable", which is consistent with the justification result.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist E.2.1 and E.2.3.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E3	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CL PoA-E3:Baseline determination</p> <p>The following issues were found in section E.4 of the PoA-DD.</p> <p>1. The type of manure management system is not defined for the baseline scenario of AMS-III.R.</p> <p>2. The type of fossil fuel is not defined for the baseline scenario of AMS-I.I.</p>		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<p>In the revised PoA-DD, the following are defined:</p> <p>1) The manure management system is the pit storage or uncovered anaerobic lagoon. For simplification, anaerobic lagoon is also considered as pit storage. Therefore, the value of pit storage is used for determination of MCF. This is conservative..</p> <p>2) The fossil fuel is the coal.</p>		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective</i>	<p>OK. In section E.4 of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <p>The baseline alternatives sufficiently take into account relevant national and/or sectoral policies, macro-economic trends and</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-E3	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL	<input type="checkbox"/> FAR
<i>action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>political aspirations. The provisions for- the baseline scenario determination are compatible with the available data and all literature and sources are clearly referenced.</p> <p>1. For the baseline scenario of AMS-III.R, the type of manure management system is defined as the pit storage or uncovered anaerobic lagoon. This definition is consistent with the actual situation of the PoA^{/IM01//IM02/} and the table 10.18 “Definitions of Manure Management Systems” in Chapter 10 “Emissions from Livestock and Manure Management”, under the volume 4 “Agriculture, Forestry and Other Land Use” of the “2006 IPCC Guidelines for National Greenhouse Gas Inventories”^{/Tier2/}.</p> <p>2. For the baseline scenario of AMS-I.I, the type of fossil fuel is defined as coal. This definition is consistent with the actual situation of the PoA^{/IM01//IM02/}.</p> <p>Thus, this CL is closed.</p>			
Related Checklist(s)	PoA-DD Checklist E.4.1 to E.4.4.			
Conclusion <i>Tick the appropriate checkbox</i>	<div><input type="checkbox"/> To be checked during the first periodic verification</div> <div><input checked="" type="checkbox"/> Appropriate action was taken</div> <div><input checked="" type="checkbox"/> Project documentation was corrected correspondingly</div> <div><input type="checkbox"/> Additional action should be taken</div> <div><input checked="" type="checkbox"/> The project complies with the requirements</div>			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-E4	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	CL PoA-E4:Addtionality of CPA The following issues were found in section E.5.1 of the PoA-DD : 1. The prior consideration of the CDM is not assessed unless no CPA of the PoA will be commenced prior to the PoA GSP date of 2011-09-14. 2. Please justify “Guidelines for demonstrating additionality of microscale project activities” version 02. 3. For type I component, the value for installed capacity of each unit is not indicated. The conversion factor from electrical to thermal units should be clearly defined. 4. The Headers of “Additionality under AMS I.I” and “Additionality under AMS-III.R” are misleading since the criteria of the additionality guidelines for microscale project activities are used under the Headers.			
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	1. As per eligibility criteria (4) for inclusion of a SSC-CPA in the PoA described in sectionA.4.2.2, the start date of all activities under the CPAs will be later than the PoA GSP date of 14/09/2011, so it is not necessary to access the prior			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E4	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>consideration of the CDM.</p> <p>2. The latest “Guidelines on the demonstration of additionality of small-scale project activities” (Version 09) was used in the PoA-DD.</p> <p>3. For type I component, the value of no more than 150kW_{th} (50kW_(e)) for the capacity of each unit is indicated.</p> <p>According to the paragraph 2 of methodology <i>AMS.I.I</i> and paragraph 4(c) of <i>General Guidelines to SSC CDM methodologies (Version 17)</i>, For biomass, biofuel and biogas project activities, the maximal limit of 15 MW(e) is equivalent to 45 MW thermal output of the equipment or the plant. For thermal applications of biomass, biofuels or biogas (e.g. the cookstoves), the limit of 45 MW_{th} is the installed/rated capacity of the thermal application equipment or device/s (e.g. biogas stoves). In conclusion, 1MW(e) is equivalent to 3MW_{thermal}.</p> <p>4. The Headers of “Additionality under AMS I.I” and “Additionality under AMS-III.R” was revised.</p>		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. In section E.5.1 of the PoA-DD was checked by the validation team and the following can be confirmed: The PoA-DD makes provisions to describe the additionality justification.</p> <p>1. As per paragraph 3 of “Clarifications regarding the procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission reductions for a programme of activities” (version 01, EB 60 Annex 26), the demonstration and assessment of prior consideration of the CDM do not apply to PoAs, as at present it is expected that no component of the programme will commence prior to the start date of validation.</p> <p>2. The latest “Guidelines on the demonstration of additionality of small-scale project activities” (Version 09) was used in the PoA-DD and the PoA-DD was accordingly updated as per the the “Guidelines on the demonstration of additionality of small-scale project activities” (Version 09).</p> <p>3. For type I component, the capacity of no more than 150kW_{th} (50kW_(e)) for each unit of CPAs under the PoA is indicated; the conversion factor 3 from electrical to thermal units is applied.</p> <p>4. The Header of “Additionality under AMS I.I” was revised as “type I component”; the header of “Additionality under AMS-III.R” was revised as “type III component”. The validation team deems it more accurate.</p> <p>Thus, this CL is closed.</p>		
Related Checklist(s)	PoA-DD Checklist E.5.1.1 and E.5.1.3.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-E4	<input type="checkbox"/> CAR	<input checked="" type="checkbox"/> CL	<input type="checkbox"/> FAR
	<input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-E5	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	CAR PoA-E5: Key criteria of assessing Additionality of CPA The following issues were found in section E.5.2 of the PoA-DD: 1. The respective key criteria are not provided for type I components and type III components of a CPA separately. 2. The installed capacity of each unit belonging to type I components of a CPA is not indicated. 3. The end user of the subsystem is not defined.			
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	1. The respective key criteria were provided for type I components and type III components of a CPA separately. The additionality demonstration has been revised based on the “Guidelines on the demonstration of additionality of small-scale project activities” (Version 09) 2. As per eligibility criteria (13) for inclusion of a SSC-CPA in the PoA described in sectionA.4.2.2, the thermal installed capacity of each unit is no larger than 150kW _{th} . Commonly, the thermal installed capacity of cooking stove is 3.26kW _{th} , much lower than 150kW _{th} . 3. The end user was defined as the biogas users for the PoA. In the activities under the CPAs, the end users are households.			
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	OK. In section E.5.2 of the PoA-DD was checked by the validation team and the following can be confirmed: 1. The key criteria for type I component and type III component have been correctly concluded separately. The additionality assessment has been revised in accordance with the updated ‘Guidelines on the demonstration of additionality of small-scale project activities’ issued in EB68. 2. The capacity criterion of ≤150 kW _{th} for each unit of type I component has been clearly indicated. 3. The end users for type I component and type III component have been correctly defined as households. Thus, this CAR is closed.			
Related Checklist(s)	PoA-DD Checklist E.5.2.1.			
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken			

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E5	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E6	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-E6: Estimation of Emission reductions of a CPA</p> <p>The following issues were found in section E.6.2 of the PoA-DD</p> <ol style="list-style-type: none"> For the determination of $B_{0,LT}$, it is stated in the PoA-DD that default values from tables 10 A-4 to 10 A-9 of 2006 IPCC Guidelines for National Greenhouse Gas Inventories volume 4 Chapter 10 can be used. As per the paragraph 10(a) of AMS-III.D. , the suitability of those default values is not assessed. For the determination of $VS_{LT,y}$, the section E.6.2 of the PoA-DD only copied and pasted the relevant content of AMS-III.D. which means that all four options recommended by AMS-III.D. are selected by the PoA to calculate $VS_{LT,y}$. However, the section E.6.3 of the PoA-DD listed the ex-ante fixed parameters of $W_{default}$, W_{site} and $VS_{default}$ which means that the fourth option is selected by the PoA. Thus, there is a contradiction and the following are requested: i) which option will be used by the PoA is not clearly specified in section E.6.2; and ii) the specified option in section 6.2 is not consistent with the section E.6.3. The definition of parameter $BS_{k,y}$ is not given as per methodology. 		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<ol style="list-style-type: none"> For the proposed PoA, animal were purchased and growing in China, so default Asia values from tables 10 A-4 to 10 A-9 of 2006 IPCC Guidelines for National Greenhouse Gas Inventories volume 4 Chapter 10 was chosen to calculation, it is reasonable. According to AMS-III.D (Version 18) Table III.D.1:Parameters for monitoring during the crediting period, it is only required when data from national published source are not available or IPCC default value from 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 4 chapter 10 table 10 A-4 to 10 A-9 are not used. For the proposed PoA, the IPCC default value was adopted. 3) The parameter $BS_{k,y}$ is net quantity of biogas consumed by the biogas cook stove in the proposed PoA. The PoA-DD was revised. 		
DOE Assessment #1	OK. Section E.6.2 of the PoA-DD was checked by the validation		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E6	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
<p>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</p>	<p>team and the following can be confirmed:</p> <ol style="list-style-type: none"> 1. The assessment of suitability for $B_{0,LT}$ default values, taken from tables 10 A-4 to 10 A-9 of 2006 IPCC Guidelines for National Greenhouse Gas Inventories volume 4 Chapter 10, was provided in section E.6.2. The animals for all CPAs of the PoA are purchased and grown in China. Thus, the validation team deems that the $B_{0,LT}$ default values for Asia in tables 10 A-4 to 10 A-9 are suitable for the PoA. 2. For the determination of $VS_{LT,y}$ in section E.6.2, the option of adjusted IPCC default values is not adopted by the CPA (thus the W_{site} is not required to be monitored); instead, the option of IPCC default values from 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 4 chapter 10 table 10 A-4 to 10 A-9, is adopted. In section E.6.3, the parameters of $W_{default}$, W_{site} and $VS_{default}$ are deleted. The same was verified by the validation team to be consistent with AMS-III.D. 3. The parameter $BS_{k,y}$ is correctly defined as net quantity of biogas consumed by the biogas cook stove. The same was verified by the validation team to be consistent with AMS-I.I. <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist E.6.2.3.		
<p>Conclusion Tick the appropriate checkbox</p>	<p> <input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements </p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E7	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
<p>Description of finding Describe the finding in unambiguous style; address the context (e.g. section)</p>	<p>CAR PoA-E7: Ex-ante fixed parameters</p> <p>The following issues were found in section E.6.3 of the PoA-DD:.</p> <ol style="list-style-type: none"> 1. W_{site} is a monitoring parameter determined by sampling approach as per AMS-III.D. 2. $\eta_{PJ/BL}$ is an ex-post monitoring parameter. 3. The value for $\eta_{PJ/BL}$ of 2.75 is not evidenced. Furthermore it is not clear, why this value can be applied to all CPAs since the technical design may varies. 		
<p>Corrective Action #1 This section shall be filled by the PP. It shall address the corrective action taken in details.</p>	<ol style="list-style-type: none"> 1. The parameter of W_{site} was deleted. 2. According to the revised version of AMS-I.I, the $\eta_{PJ/BL}$ was required to be measured once prior to validation. 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E7	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	3. According to the revised version of AMS-I.I, the $\eta_{PJ/BL}$ was required to be measured once prior to validation applying the same test procedure (e.g. lab test), as per a national or an international standard. Official data or scientific literature can be used for cross-check purposes.		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. In section E.6.3 of the PoA-DD was checked by the validation team and the following can be confirmed: Conservative assumptions have been used when calculating the baseline emissions, project emissions and leakage. All data and parameters which remain fixed throughout the crediting period are correct, applicable to the project and will lead to a conservative estimation of emission reductions.</p> <p>1 W_{site} was deleted from this section 6.3. Also, as the $VS_{LT,y}$ is ex-ante determined using the IPCC default values from 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 4 chapter 10 table 10 A-4 to 10 A-9, W_{site} is not the ex-post monitoring parameter for this PoA. Thus, W_{site} is not relevant for the PoA.</p> <p>2 As per the revision of AMS-I.I to version 03.0 and the SSC Working Group's clarification on $\eta_{PJ/BL}^{/ERC/}$, the parameter of $\eta_{PJ/BL}$ is the ex-ante fixed parameter and measured once prior to validation. Thus, $\eta_{PJ/BL}$ should be listed in section E.6.3 as per AMS-I.I. .</p> <p>3 The suitability for $\eta_{PJ/BL}$ of 2.75 ($\eta_{PJ/BL} = \eta_{biogas\ cooking\ stove} \div \eta_{coal-based\ cooking\ stove}$) is sufficiently substantiated as per AMS-I.I. in section E.6.3 as follows:</p> <p>$\eta_{biogas\ cooking\ stove}$</p> <ul style="list-style-type: none"> ➤ $\eta_{biogas\ cooking\ stove}$ of the biogas stove manufactured by Beijing Hebaiyi Ecological Energy Development Co., Ltd., having the brand of Lvbaihe and used in the project scenario of CPA, was verified by the Biogas Equipment Quality Supervision, Inspection and Test Centre of Agriculture Ministry of China^{/VRP/} on 2011-09-07 prior to the PoA GSP date of 2011-09-14. According to the verification report^{/VRP/}, the $\eta_{biogas\ cooking\ stove}$ is 59.8%(average). ➤ The national standard for domestic biogas stove (GB/T 3606-2001)^{/Standr/} has been used by the validation team to cross-check the measured value 55% of $\eta_{biogas\ cooking\ stove}$. According to this standard^{/Standr/}, $\eta_{biogas\ cooking\ stove}$ should not be lower than 55%. ➤ Thus, the validation team deems that the $\eta_{biogas\ cooking\ stove}$ of 55% is determined as per AMS-I.I. and reasonable. <p>$\eta_{coal-based\ cooking\ stove}$</p> <ul style="list-style-type: none"> ➤ $\eta_{coal-based\ cooking\ stove}$ of the coal stove, used in the baseline 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E7	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>scenario of CPA, was tested by the Energy Saving Monitoring Centre of Gansu Province ^{/VRB/} on 2011-07 prior to the PoA GSP date of 2011-09-14. According to the test reports^{/VRB/}, 100 rural coal stoves in Jingning Country of Gansu province were tested and the $\eta_{\text{coal-based cooking stove}}$ is within the range of 7% to 16% with the average of 11.23%.</p> <p>➤ The test reports^{/VRB/} have been checked by the validation team and it can be confirmed that the test procedure is compliant with the national standard of Test Method for Household Coal and Stoves(GB/T 6412-2009) ^{/Standr/}.</p> <p>➤ The UN's data^{/UNDP/} has been used by the validation team to cross-check the measured value 7-16% of $\eta_{\text{coal-based cooking stove}}$. According to the paper of United Nations Development Programme^{/UNDP/}, $\eta_{\text{coal-based cooking stove}}$ of the coal stoves used in the rural areas of the developing world is typically 5-15%.</p> <p>➤ For the conservativeness purpose, 20% is applied to $\eta_{\text{coal-based cooking stove}}$ in the PoA, which is deemed by the validation team to be acceptable.</p> <p>➤ Thus, the validation team deems that the $\eta_{\text{coal-based cooking stove}}$ of 20% is determined as per AMS-I.I. and reasonable.</p> <p>$\eta_{PJ/BL}$</p> <p>➤ $\eta_{PJ/BL}$ is calculated as $\eta_{\text{biogas cooking stove}} / \eta_{\text{coal-based cooking stove}} = 55\% / 20\% = 2.75$.</p> <p>➤ In conclusion, the validation team deems that the calculation of $\eta_{PJ/BL}$ is consistent with AMS-I.I. and reasonable, and that this value of 2.75 can be applied to all CPAs under the PoA.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist E.6.3.1.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E8	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-E8: Ex-post monitoring parameters</p> <p>The following issues were found in section E.7.1 of the PoA-DD :</p> <p>For Type-III components:</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E8	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<ol style="list-style-type: none"> For the parameter of annual average number of animals, the following revisions are requested: i) not the correct nomenclature of $N_{LT,y}$ is used; ii) Ex-post survey is not applied instead of ex-ante. For the parameter of “the average annual hours of operation of a system”, this parameter is defined as per the paragraph 12(b) AMS-III.R. However, AMS-III.R is applied to the CPA in conjunction with AMS-III.D which also takes care of this monitoring parameter with a different name of nd_y. Considering that the parameter of $VS_{LT,y}$ is not the ex-post monitoring parameter for the proposed PoA (i.e. the adjusted default IPCC values are not used by the PoA), it is not necessary to monitor the parameter of “the average annual hours of operation of a system”. The parameter of “Recording annually the number of systems operating using survey methods” is not listed in section E.7.1 as per the paragraph 12(a) of AMS-III.R. $MS\%_{i,y}$ (fraction of manure handled in system i in year y) is not listed as monitoring parameter determined by sampling approach as per AMS-III.D. For the parameter of soil application of the final sludge, the PP does not explain the meaning of “proper” in context of the AMS-III.R. $VS_{LT,y}$, W_{site} and nd_y are not listed as the monitoring parameter determined by sampling approach as per AMS-III.D. <p>For Type-I components:</p> <ol style="list-style-type: none"> For the parameter of $N_{k,0}$, the measurement methods and procedures are not clearly specified as per AMS-I.I. For the parameter of $n_{k,y}$, no QA/QC were defined. Thus, the QA/QC regarding the inspection frequency (at least bi-annual) and the confidence/precision is not specified as per the paragraph 17 of AMS-I.I. 		
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<p>For Type-III components:</p> <ol style="list-style-type: none"> The correct nomenclature of $N_{da,y}$, $N_{p,y}$ was used instead of NL_k in PoA-DD; Ex-post survey was applied instead of ex-ante in PoA-DD. The parameter of “the average annual hours of operation of a system” was deleted from the section E.7.1 of the PoA-DD. The parameter of “Recording annually the number of systems operating using survey methods” was listed in section E.7.1. $MS\%_{i,y}$ (fraction of manure handled in system i in year y) was listed as the ex-ante parameter and the value was adopted as 100%, which is conservative. 		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E8	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>5. The final sludge will be used as fertilizer for vegetable and crops under aerobic condition.</p> <p>6. As the adjusted default IPCC values for VS are not used by the PoA, $VS_{LT,y}$, W_{site} and nd_y are not the monitoring parameters as per AMS-III.D. Thus, these parameters are not listed in section E.7.1.</p> <p>For Type-I components:</p> <p>1. For the parameter of $N_{k,0}$, the measurement methods and procedures was specified as per the paragraph 16 of AMS-I.I.</p> <p>2. The QA/QC regarding measurement frequency (at least biannual) and the confidence and confidence/precision was specified as per the paragraph 17 of AMS-I.I.</p>		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. Section E.7.1 of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <p>All monitoring parameters as required by the applied methodology are contained in the monitoring plan. The means of monitoring of all parameters are contained in the monitoring plan and they are feasible and in accordance with the requirements of the applied methodologies.</p> <p>For Type-III components:</p> <p>1. The correct nomenclature of $N_{da,y}$ and $N_{p,y}$ is applied; it is correctly stated that $N_{da,y}$ and $N_{p,y}$ is determined by ex-post survey instead of ex-ante survey. The same is verified by the validation team to be consistent with AMS-III.D..</p> <p>2. The parameter of “the average annual hours of operation of a system” was deleted from the section E.7.1 of the PoA-DD. This is deemed reasonable by the validation team because the parameter of $VS_{LT,y}$ is not the ex-post monitoring parameter for the proposed PoA (i.e. the adjusted default IPCC values are not used by the PoA), Also, this is approved by SSC Working Group in its clarification^{/ERC/} to TUV-NORD request.</p> <p>3. The parameter of “Recording annually the number of systems operating using survey methods” is listed in section E.7.1 as per the paragraph 12(a) of AMS-III.R. This will make sure that only the operating biogas digesters shall be considered in the emission reduction calculation. The same was verified by the validation team.</p> <p>4. In the revised PoA-DD, the value of $MS\%_{i,y}$ for the calculation of project emissions is ex-ante defined as 100% for conservativeness purpose, which is considered acceptable by the validation team. Thus, the parameter of $MS\%_{i,y}$ is not listed in section E.7.1 but in section E.6.3.as an ex-ante fixed parameter.</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E8	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
	<p>5. The description for the parameter of soil application of the final sludge is updated in section E.7.1. The soil application of the final sludge is confined to the aerobic condition. The validation team considers that this manner of soil application will not result in the methane emissions and is consistent with the paragraph 12(d) of AMS-III.R.</p> <p>6. In the revised PoA-DD, the values for $VS_{LT,y}$ are clearly defined to be taken from the tables 10 A-4 to 10 A-9 of 2006 IPCC Guidelines for National Greenhouse Gas Inventories volume 4 Chapter 10. Thus, it is reasonable that $VS_{LT,y}$, W_{site} and nd_y are not listed in section E.7.1.</p> <p>For Type-I components:</p> <p>1. For the parameter of $N_{k,0}$, the measurement methods and procedures are clearly specified as per the paragraph 16 of AMS-I.I., which was verified by the validation team.</p> <p>2. For the parameter of $n_{k,y}$, the inspection frequency and the confidence/precision have been indicated as per the paragraph 17 of AMS-I.I. which was verified by the validation team.</p> <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist E.7.1.1 to E.7.1.3.		
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E9	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR PoA-E9: Monitoring Plan</p> <p>The following issues were found in section E.7.2 of the PoA-DD:</p> <p>1. The subsection 1 of monitoring parameters is not updated accordingly as per CAR PoA-E8.</p> <p>2. There are certain monitoring parameters to be determined by sampling/survey, but no sampling plan is designed.</p> <p>3. In subsection 2 of monitoring structure, it is stated that the ammeter is used by the PoA. But, the ammeter is not required by the PoA as per the PoA-DD. Thus, clarification is requested.</p> <p>4. The QA/QC procedures is not specified, especially regarding Quality Management System, calibration and maintenance of equipment, review procedures, and the provision for emergency/ downtimes.</p>		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD
Finding	PoA-E9	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<ol style="list-style-type: none"> 1. The monitoring parameters was updated accordingly as per CAR PoA-E8. 2. The sampling plan was designed for each sampling/survey parameter and added to section E.7.2. 3. The ammeter was deleted. 4. The QA/QC procedure was added in DD. 		
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	<p>OK. Section E.7.2 of the PoA-DD was checked by the validation team and the following can be confirmed:</p> <p>A monitoring plan for a CPA has been developed in accordance with the approved monitoring methodologies, and the monitoring provisions and data parameters a CPA has to apply/monitor are identified. The QA/QC procedures are appropriate and sufficient to ensure the emission reductions achieved from the project activity can be reported ex-post and verified. All means of implementing the monitoring plan, e.g. procedures for data management, emergency preparedness, have been clearly described in line with the methodologies.</p> <ol style="list-style-type: none"> 1. OK. It is stated in section E.7.2 that only the parameters shown in section E.7.1 should be the monitoring parameters. The same was verified by the validation team to be correct. 2. OK. There are three parameters shown in section E.7.2 that are determined by a sampling approach: 1) $n_{k,y}$; 2) $N_{LT,y}$ ($N_{da,y}$ and $N_{p,y}$); 3) Soil application of the final sludge. The same was verified by the validation team to be consistent with the applied methodologies. The confidence of 95% and the precision of 10% is defined in section E.7.2 that was verified to be consistent with the applied methodologies and “Standard for sampling and surveys for CDM project activities and programme of activities”. <p>A detailed sampling plan has been provided according to “Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities”(Version 02.0) EB 65 Annex 2 and “Best practices examples focusing on sample size and reliability calculations” (Version 01.0) EB67, Annex 6. The target population, sampling method, sampling size determination and sampling frame have been provided in the PoA-DD.</p> <ol style="list-style-type: none"> 3. OK. The ammeter was deleted from the section E.7.2. The ammeter is not applied in the PoA. Thus, the validation team deems that this deletion is correct. 4. OK. The QA/QC procedure was added in section E.7.2. The QA/QC procedure was verified by the validation team to be reasonable. <p>Thus, this CAR is closed.</p>		
Related Checklist(s)	PoA-DD Checklist E.7.2.1 to E.7.2.3.		
Conclusion	<input type="checkbox"/> To be checked during the first periodic verification		

Related DDs	<input checked="" type="checkbox"/> PoA-DD	<input type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	PoA-E9	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR
<i>Tick the appropriate checkbox</i>	<input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements			

Related POA-DDs	<input type="checkbox"/> PoA-DD	<input checked="" type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD																																																						
Finding	gCPA-1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL	<input type="checkbox"/> FAR																																																					
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>CAR gCPA-1: Please update the generic CPA-DD according to the finalized PoA-DD, especially keep the information consistent between the following sections:</p> <table border="1"> <thead> <tr> <th>Generic CPA-DD</th> <th>Finalized PoA-DD</th> </tr> </thead> <tbody> <tr><td>A.1.</td><td>A.1</td></tr> <tr><td>A.2.</td><td>A.2. and A.4.2.1.</td></tr> <tr><td>A.3.</td><td>A.3.</td></tr> <tr><td>A.4.1.1.</td><td>A.4.1.1.</td></tr> <tr><td>A.4.1.2.</td><td>A.4.1.2.</td></tr> <tr><td>A.4.2.1.</td><td>*Not prior to GSP of PoA-DD</td></tr> <tr><td>A.4.2.2.</td><td>-</td></tr> <tr><td>A.4.3.1.</td><td>B.1.</td></tr> <tr><td>A.4.3.2.</td><td>B.2.</td></tr> <tr><td>A.4.4.</td><td>-</td></tr> <tr><td>A.4.5.</td><td>A.4.5.</td></tr> <tr><td>A.4.6.</td><td rowspan="2">A.4.4. and A.4.4.1.</td></tr> <tr><td>A.4.7.</td></tr> <tr><td>B.1.</td><td>A.1</td></tr> <tr><td>B.2.</td><td>A.4.2.2.</td></tr> <tr><td>B.3.</td><td>A.4.3. , E.5. , E.5.1. and E.5.2.</td></tr> <tr><td>B.4.</td><td>E.3.</td></tr> <tr><td>B.5.</td><td>E.6.</td></tr> <tr><td>B.5.1.</td><td>E.6.3.</td></tr> <tr><td>B.5.2.</td><td>E.6.1. and E.6.2.</td></tr> <tr><td>B.5.3.</td><td>-</td></tr> <tr><td>B.6.</td><td>E.1.and E.2.</td></tr> <tr><td>B.6.1.</td><td>E.7. , E.7.1., E.7.2. and A.4.4.2.</td></tr> <tr><td>C.1. to C.3</td><td>C.1. to C.3</td></tr> <tr><td>D.1. to D.4.</td><td>D.1 to D.4.</td></tr> <tr><td>Annex 1 to Annex 4</td><td>Annex 1 to Annex 4</td></tr> </tbody> </table>				Generic CPA-DD	Finalized PoA-DD	A.1.	A.1	A.2.	A.2. and A.4.2.1.	A.3.	A.3.	A.4.1.1.	A.4.1.1.	A.4.1.2.	A.4.1.2.	A.4.2.1.	*Not prior to GSP of PoA-DD	A.4.2.2.	-	A.4.3.1.	B.1.	A.4.3.2.	B.2.	A.4.4.	-	A.4.5.	A.4.5.	A.4.6.	A.4.4. and A.4.4.1.	A.4.7.	B.1.	A.1	B.2.	A.4.2.2.	B.3.	A.4.3. , E.5. , E.5.1. and E.5.2.	B.4.	E.3.	B.5.	E.6.	B.5.1.	E.6.3.	B.5.2.	E.6.1. and E.6.2.	B.5.3.	-	B.6.	E.1.and E.2.	B.6.1.	E.7. , E.7.1., E.7.2. and A.4.4.2.	C.1. to C.3	C.1. to C.3	D.1. to D.4.	D.1 to D.4.	Annex 1 to Annex 4	Annex 1 to Annex 4
Generic CPA-DD	Finalized PoA-DD																																																								
A.1.	A.1																																																								
A.2.	A.2. and A.4.2.1.																																																								
A.3.	A.3.																																																								
A.4.1.1.	A.4.1.1.																																																								
A.4.1.2.	A.4.1.2.																																																								
A.4.2.1.	*Not prior to GSP of PoA-DD																																																								
A.4.2.2.	-																																																								
A.4.3.1.	B.1.																																																								
A.4.3.2.	B.2.																																																								
A.4.4.	-																																																								
A.4.5.	A.4.5.																																																								
A.4.6.	A.4.4. and A.4.4.1.																																																								
A.4.7.																																																									
B.1.	A.1																																																								
B.2.	A.4.2.2.																																																								
B.3.	A.4.3. , E.5. , E.5.1. and E.5.2.																																																								
B.4.	E.3.																																																								
B.5.	E.6.																																																								
B.5.1.	E.6.3.																																																								
B.5.2.	E.6.1. and E.6.2.																																																								
B.5.3.	-																																																								
B.6.	E.1.and E.2.																																																								
B.6.1.	E.7. , E.7.1., E.7.2. and A.4.4.2.																																																								
C.1. to C.3	C.1. to C.3																																																								
D.1. to D.4.	D.1 to D.4.																																																								
Annex 1 to Annex 4	Annex 1 to Annex 4																																																								
Corrective Action #1 <i>This section shall be filled by the PP. It shall address the corrective action taken in details.</i>	<p>The generic CPA-DD has been revised according to the finalized PoA-DD</p>																																																								

Related POA-DDs	<input type="checkbox"/> PoA-DD	<input checked="" type="checkbox"/> generic CPA-DD	<input type="checkbox"/> real case CPA-DD	
Finding	gCPA-1	<input checked="" type="checkbox"/> CAR	<input type="checkbox"/> CL <input type="checkbox"/> FAR	
DOE Assessment #1 <i>The assessment shall encompass all open issues in annex A-1. In case of non-closure, additional corrective action and DOE assessments (#2, #3, etc.) shall be added.</i>	Generic CPA-DD	Finalized PoA-DD		
	A.1.	A.1	<input checked="" type="checkbox"/> Consistent	
	A.2.	A.2. and A.4.2.1.	<input checked="" type="checkbox"/> Consistent	
	A.3.	A.3.	<input checked="" type="checkbox"/> Consistent	
	A.4.1.1.	A.4.1.1.	<input checked="" type="checkbox"/> Consistent	
	A.4.1.2.	A.4.1.2.		
	A.4.2.1.	*Not prior to GSP of PoA-DD	<input checked="" type="checkbox"/> Appropriate	
	A.4.2.2.	-		
	A.4.3.1.	B.1.	<input checked="" type="checkbox"/> Consistent	
	A.4.3.2.	B.2.	<input checked="" type="checkbox"/> Consistent	
	A.4.4.	-		
	A.4.5.	A.4.5.	<input checked="" type="checkbox"/> Consistent	
	A.4.6.		<input checked="" type="checkbox"/> Consistent	
		A.4.4. and A.4.4.1.		
	A.4.7.			
	B.1.	A.1	<input checked="" type="checkbox"/> Consistent	
	B.2.	A.4.2.2.	<input checked="" type="checkbox"/> Consistent	
	B.3.	A.4.3. , E.5. , E.5.1. and E.5.2.	<input checked="" type="checkbox"/> Consistent	
	B.4.	E.3.	<input checked="" type="checkbox"/> Consistent	
	B.5.	E.6.	<input checked="" type="checkbox"/> Consistent	
	B.5.1.	E.6.3.	<input checked="" type="checkbox"/> Consistent	
	B.5.2.	E.6.1. and E.6.2.	<input checked="" type="checkbox"/> Consistent	
	B.5.3.	-	<input checked="" type="checkbox"/> Appropriate	
	B.6.	E.1.and E.2.	<input checked="" type="checkbox"/> Consistent	
	B.6.1.	E.7., E.7.1., E.7.2. and A.4.4.2.	<input checked="" type="checkbox"/> Consistent	
	C.1. to C.3	C.1. to C.3	<input checked="" type="checkbox"/> Consistent	
	D.1. to D.4.	D.1 to D.4.	<input checked="" type="checkbox"/> Consistent	
	Annex 1 to Annex 4	Annex 1 to Annex 4	<input checked="" type="checkbox"/> Consistent	
	Thus finding gCPA-1 is successfully closed, all necessary information consistent between the finalized POA-DD and the Generic CPA-DD			
	Related Checklist(s)	gCPA: 2.		
	Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> To be checked during the first periodic verification <input checked="" type="checkbox"/> Appropriate action was taken <input checked="" type="checkbox"/> Project documentation was corrected correspondingly <input type="checkbox"/> Additional action should be taken <input checked="" type="checkbox"/> The project complies with the requirements		

5 VALIDATIONASSESSMENT SUMMARY

5.1 General Description of the PoA

5.1.1 Participation

LOA(s)

The precise title of this PoA is: Biogas Development Programme at household/ small farm level in Gansu Province.

Host country Approval^{/HCA/} for this PoA has been issued in February 2012(No. 3687) by National Development and Reform Commission of the People's Republic of China, which is confirmed as China's DNA. The PoA complies with the permission requirements and assists the host country in achieving sustainable development.

Annex-I country Approval^{/LOA/} for this PoA has been issued on 2012-04-02 vide official document by Environment Agency, which is confirmed as the DNA of United Kingdom of Great Britain and Northern Ireland.

However, CAR PoA-A2 was raised and successfully closed.

Project Participants and CME

The PoA CME (Coordinating and Managing Entity) is Lanzhou Hualong Poultry Breeding Co. which is authorized as China's Project Participant. Another project participant is A&T Carbon Asset Co., Limited, which is authorized by the DNA of United Kingdom of Great Britain and Northern Ireland. Information regarding project participants is confirmed as consistent in the PoA-DD^{/PoA-DD/} and LOAs^{/HCA/LOA/}.

However, CAR PoA-A2 and CL PoA-A4 were raised and successfully closed.

5.1.2 Contribution to Sustainable Development

The Chinese DNA approves that the PoA complies with the permission requirements provided for in the measures for operation and management of CDM project and assists China in achieving sustainable development.

5.1.3 PDDs editorial Aspects

The PoA-DD^{/PoA-DD/} is using CDM-SSC-PoA-DD template version 01 (EB 33 Annex 43) ^{/PoA-DDs-T/} and generic CPA-DD^{/CPA-DD-G/} is using CDM-SSC-CPA template version 01 (EB 33 Annex 44) ^{/PoA-DDs-T/}. They are in compliance with the latest PoA-DD and CPA-DD templates and guidelines.

5.1.4 Technology to be employed

The description of the PoA is complete, accurate and in compliance with the PoA-DD and CPA-DD templates and guidelines^{/PoA-DDs-T/}. The PoA is designed to install the domestic biogas digesters to recover the methane contained in the biogas and meanwhile to install the domestic biogas stoves/ biogas lightings to apply the recovered methane in the rural households and small farms within Gansu province of China, in order to reduce CO₂ emissions. For the thermal application of biogas, two modes of application manners are used by the PoA:

- 1) both biogas stoves and biogas lightings are jointly applied;
- 2) only the biogas stoves are applied.

For the conservativeness purpose, the emission reductions from the fossil fuel-based electricity displacement by the biogas lightings will not be accounted for in the baseline of the PoA. The installed domestic biogas digesters, domestic biogas stoves and biogas lightings will comply with their respective national/industry standards^{/Standr/}.

Besides, the technology employed is confirmed as environmentally safe and sound. However, CL PoA-A7 was raised and successfully closed.

5.1.5 Small Scale Projects

The CPA of the PoA includes the Type I component and Type III component.

Type I component of the CPA

The value of annual installed capacity of every CPA proposed under this PoA is no more than 45 MW(thermal) annually^{/PoA-DD/}. The first proposed CPA is estimated to have 11.41 MW(thermal) annually^{/CPA-DD-R/}, which is further confirmed as less than 45 MW(thermal) annually; therefore, the proposed PoA is a small scale PoA.

Type III component of the CPA

The value of annual emission reductions of every CPA proposed under this PoA is no more than 60 kt CO₂ equivalent annually^{/PoA-DD/}. The first proposed CPA is estimated to have 494 tCO_{2e}emission reductions annually^{/CPA-DD-R/}, which is further confirmed as less than 60 kt CO₂ equivalent annually; therefore, the proposed PoA is a small scale PoA.

Non-debundling

The DOE has also checked and confirms that the CME has substantiated that the CPA is not a de-bundled component of large scale project through application of the paragraph 10 of applicable EB 54, Annex 13 - "Guidelines on Assessment of Debundling for SSC Project Activities", as follows:

	Unit/subsystem of type I components	Unit/subsystem of type III components
Paragraph 10 of EB 54, Annex13	≤450 kW(thermal)	≤600 tCO _{2e} /year
The generic CPA defined in the PoA-DD	≤150 kW(thermal)	≤5 tCO _{2e} /year
The first real case CPA	3.26 kW(thermal)	0.14 tCO _{2e} /year

From the table above it is evident that the CPA is exempted from performing a de-bundling check, as CPA of a PoA is no larger than 1% of the small-scale thresholds defined by the methodology applied.

5.2 PoA Baseline, Additionality and Monitoring Plan

5.2.1 Application of the Methodology

By consultation of the UNFCCC website and check of the applied SSC methodologies, it is confirmed that the following approved SSC methodologies:

- *AMS-I.I. version 04.0 “Biogas/biomass thermal applications for households/small user”*
- *AMS-III.R. version 03 “Methane recovery in agricultural activities at household/small farm level”*

are applicable to the proposed PoA. The versions of this CDM Methodologies approved by EB are valid during submission for registration.

The proposed PoA uses the combination of AMS-I.I. and AMS-III.R. this combination is eligible for the PoA due to the following reasons:

- *As per the paragraph 28 of EB 65 Annex 3^{/PoAR/}, combinations of technologies/measures and/or methodologies for a PoA are eligible where it is demonstrated that there are no cross effects between the technologies/measures applied*
- *As per the footnote 10 of EB 65 Annex 3^{/PoAR/}, Combinations of approved methodologies contained in the “General guidelines to SSC CDM methodologies” may be applied without further assessment of cross effects.*
- *As per the paragraph 11(a) of “General guidelines to SSC CDM methodologies” version 18^{/SSCG/}, the combination of any one of type III methodologies where activities lead to generation of methane with any one of type I methodologies for utilising the methane generated for generation of renewable, was approved by EB.*

As per the applied methodology AMS-III.R., the approved methodology for small-scale CDM project AMS-III.D. version 18: *Methane recovery in animal manure management systems* is used.

Furthermore, all applicability conditions of the applied methodologies have been met and the PoA design is in line with all requirements and stipulations mentioned in all sections of the applied methodologies. Besides, the PoA design is not expected to result in significant emissions related both to project and leakage, other than those listed in the methodologies.

However, CAR PoA-E2 was raised and successfully closed.

5.2.2 PoA Boundary and CPA Boundary

The boundaries (geographically and related to GHG sources / sinks) are correctly given in section A.4.1.2 of the PoA-DD. The geographical/physical boundary of this PoA is the Gansu province of China with the geographic coordinates of 92.2167° to 108.7667° East longitude and 32.5167° to 42.9500° North latitude^{/baidu/}.

As per AMS-I.I. and AMS-III.R., the boundary of the CPA is the physical, geographical site of the methane recovery and combustion systems and the equipment producing thermal energy and the physical, geographical site of the methane recovery and combustion systems. The information has been also correctly given in section A.4.1.2 of the real case CPA-DD.

The physical delineation of the CPA under the PoA and the description of the emission sources and GHGs that are included in the CPA boundary are appropriate for the purpose of calculating project and baseline emissions for each CPA.

The methodologies indicate CO₂(type I component) and CH₄(type III component) are the GHG sources to be included in the boundary; the DOE confirms that the justification by the PP is reasonable and evidenced. Besides, there are no other sources which are impacted by the project and not addressed by the applied methodology.

However, CAR PoA-A6 was raised and successfully closed.

5.2.3 Baseline Identification

Baseline for type I component

The SSC methodology AMS-I.I. stipulates the baseline of the biogas thermal application project as follows:

The baseline is the fuel consumption of the thermal application used or that would have been used in the absence of the project.

The households/small farms within the CPA used coal as main sources of energy for cooking.

Baseline for type III component

The SSC methodology AMS-III.R. stipulates the baseline of the methane recovery follows:

The baseline scenario is the situation where, in the absence of the project activity, biomass and other organic matter are left to decay anaerobically within the project boundary and methane is emitted to the atmosphere.

The manure within the CPA is anaerobically stored in pit storage or uncovered anaerobic lagoon.

According to paragraph 105 of the VVM version 1.2^{VVM}, if the applied approved methodology describes the baseline scenario, no further analysis for identifying

alternative scenarios is required. Hence, the baseline scenario for the type I and III component of the CPA are correctly defined.

The DOE confirms that the approved baseline methodologies have been correctly applied to identify the baseline scenarios, and the identified baseline scenarios represent what would occur in the absence of the proposed CPA. For a detail assessment of the baseline, please refer to Annex 2.

However, CL PoA-E3 was raised and successfully closed.

5.2.4 Calculation of GHG Emission Reductions

The PoA-DD applies steps and equations to calculate project emissions, baseline emissions, leakage and emission reductions as per the requirements of the applied methodologies.

For the calculation of the GHG emission reductions the correct equations have been used reflecting the methodological choices.

Following equations are used for the calculation of the emission reductions:

Emission reduction by type I component

Option 2 of AMS-I.I. is adopted in the PoA to calculate the emission reduction. The emission reduction is calculated as baseline emission deducted by leakage as follows:

$$ER_{Thermal,y} = \sum_k N_{k,0} * n_{k,y} * BS_{k,y} * EF * \eta_{PJ/BL} * NCV_{biomass} - LE_{Thermal,y}$$

Where:

$ER_{Thermal,y}$ Emission reductions of type I

$N_{k,0}$ Number of biogas stoves commissioned

$n_{k,y}$ Proportion of $N_{k,0}$ that remain operating in year y (fraction)

$BS_{k,y}$ The net quantity of biogas consumed by the biogas cook stove in year y

EF CO₂ emission factor (tCO₂/GJ)

$$EF = \sum_j x_j * EF_{FF,j} = 0.0873 \text{ tCO}_2/\text{GJ}$$

Where:

$x_j = 100\%$, fraction representing fuel type j used by the baseline thermal applications displaced by biomass/biogas

$\eta_{PJ/BL}$ =2.75, Ratio of efficiencies of project equipment and baseline equipment (e.g. cook stove using coal) measured once prior to validation applying the same test procedure (e.g. lab test), as per a national or an international standard. Official data or scientific literature can be used for cross-check purposes

$NCV_{biomass}$ = 0.0215 GJ/m³, Net calorific value of the biomass (GJ/unit mass or volume, dry basis). For biogas, use default value: 0.0215 GJ/m³ biogas (assuming NCV of the methane: 0.0359 GJ/m³, default methane content in biogas: 60%)

$LE_{Thermal,y}$ leakage of type I, Considered as zero as no energy generating

equipment is transferred from outside the boundary to the PoA.

The ex-ante fixed parameters are $\eta_{PJ/BL}$, x_j , $EF_{FF,j}$, and $NCV_{biomass}$ and the ex-post monitoring parameters are $N_{k,0}$, $n_{k,y}$, $BS_{k,y}$

For the data and parameters not to be monitored throughout the crediting period (i.e. they are determined only once and thus remain fixed throughout the crediting period), it is assessed that all data sources, assumptions and calculations are correct, applicable to the project and contribute to a conservative estimate of the emission reductions. For the data and parameters subject to monitoring, it is confirmed that the ex-ante estimated values for the monitoring parameters are plausible, and the emission reduction estimates provided in the PoA-DD are reasonable and conservative.

Emission reduction by type III component

The emission reduction ($ER_{CH_4,y}$) is calculated as baseline emission ($BE_{CH_4,y}$) deducted by project emission ($PE_{CH_4,y}$) and leakage ($LE_{CH_4,y}$).

$$ER_{CH_4,y} = BE_{CH_4,y} - PE_{CH_4,y} - LE_{CH_4,y}$$

According to AMS-III.R., the option in paragraph 9 (a) and relevant formulae shown in paragraph 10 of AMS-III.D. are used to calculate baseline emissions. The calculation is as below:

$$BE_{CH_4,y} = GWP_{CH_4} * D_{CH_4} * UF_b * \sum_{j,LT} MCF_j * B_{0,LT} * N_{LT,y} * VS_{LT,y} * MS\%_{BL,j}$$

Where:

GWP_{CH_4}	Global Warming Potential (GWP) of CH ₄ (21)
D_{CH_4}	CH ₄ density (0.00067 t/m ³ at room temperature (20 °C) and 1 atm pressure)
LT	Index for all types of livestock
j	Index for animal manure management system
MCF_j	Annual methane conversion factor (MCF) for the baseline animal manure management system j , the IPCC default values provided in table 10.17 of 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 4 Chapter 10.
$B_{0,LT}$	Maximum methane producing potential of the volatile solid generated for animal type LT (m ³ CH ₄ /kg dm), the IPCC default values from tables 10 A-4 to 10 A-9 of 2006 IPCC Guidelines for National Greenhouse Gas Inventories volume 4 Chapter 10
$N_{LT,y}$	Annual average number of animals of type LT in year y (numbers)
$VS_{LT,y}$	Volatile solids for livestock LT entering the animal manure management system in year y (on a dry matter weight basis, kg dm/animal/year), the IPCC default values from tables 10 A-4 to 10 A-9 of 2006 IPCC Guidelines for National Greenhouse Gas Inventories volume 4 Chapter 10.

$MS\%_{BL,j}$ =100%, Fraction of manure handled in baseline animal manure management system j

UF_b Model correction factor to account for model uncertainties (0.94)

According to AMS-III.R., project emissions include the CO₂ emissions from use of fossil fuels or electricity for the operation of the system and the physical leakages of methane from the recovery system. Neither fossil fuels nor electricity is consumed for operation of biogas digester in the PoA, and therefore the physical leakage of methane from the recovery system is the only emission source.

As per AMS-III.R., project emissions due to physical leakage of biogas digester may be estimated using one of the option (a) and option (b) indicated in paragraph 13 in AMS-III.D. Option (a) is adopted in the PoA, which is as follows:

$$PE_{CH_4,y} = 0.10 * GWP_{CH_4} * D_{CH_4} * \sum_{i,LT} B_{0,LT} * N_{LT,y} * VS_{LT,y} * MS\%_{i,y}$$

Where:

$MS\%_{i,y}$ =100, Fraction of manure handled in system i in year y

As per AMS-III.D., no leakage calculation is required.

The ex-ante fixed parameters are MCF_j, B_{0,LT}, VS_{LT,y}, MS%_{BL,j} and MS%_{i,y} and the ex-post monitoring parameters are N_{LT,y}.

For the data and parameters not to be monitored throughout the crediting period (i.e. they are determined only once and thus remain fixed throughout the crediting period), it is assessed that all data sources, assumptions and calculations are correct, applicable to the project and contribute to a conservative estimate of the emission reductions. For the data and parameters subject to monitoring, it is confirmed that the ex-ante estimated values for the monitoring parameters are plausible, and the emission reduction estimates provided in the PoA-DD are reasonable and conservative.

Emission Reduction by the CPA (ER_y)

$$ER_y = ER_{CH_4,y} + ER_{Thermal,y}$$

However, CAR PoA-E6, CAR PoA-E7 and CAR PoA-E8 were raised and successfully closed.

5.2.5 Additionality Determination

Consideration of CDM in decision making

As per the registration uploading requirements indicated from the UNFCCC website, in case of small scale PoA, the start date of lifetime of the PoA must be at least 4 weeks after the estimated registration submission date. Thus the starting date of the crediting period of the PoA is proposed to be 2013-01-01.

As per the paragraph 3 of EB 60 Annex 26 (*“Clarifications regarding the procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission reductions for a programme of activities”*)^{/PoAR/}, the Board agreed that the *“Guidelines for the demonstration and assessment of prior consideration of the CDM”* do not apply to PoAs, as at present it is expected that no component of the programme will commence prior to the start date of validation.

For the proposed PoA, no component CPA will start prior to the start date of validation, i.e. the PoA-DD GSP date of 2011-09-14, which is defined in the PoA-DD as the eligibility criterion 4.

Besides, the first CPA starting date (2011-09-20) is defined as per CDM glossary of term, and is later than the PoA-DD GSP date of 2011-09-14.

From above, it can be concluded that the prior CDM consideration have been taken by all CPAs under the proposed PoA.

However, CL PoA-E4 was raised and successfully closed.

Additionality justification as per methodology / methodological tools

The additionality was justified in accordance with the requirements derived from Guidelines on the demonstration of additionality of small-scale project activities (version 09.0) PoA Procedures (version 04.1, EB 55 Annex 38) and Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities (version 01.0, EB65 Annex 3): referred therein. According to the Guideline (EB68 Annex 23), project activities solely composed of isolated units where the users of the technology/measure are households/SMEs and where the size of each unit is no larger than 5% of the small-scale CDM thresholds are automatically additional.

POA

The type I and type III additionality conditions, specified by the Guideline (EB 68 Annex 27), are satisfied by each CPA of the PoA, as demonstrated in the below table

	Type I component			Type III component		
	CPA	Unit/subsystem	Target group	CPA	Unit/subsystem	Target group
Requirements By EB68 Annex 27	≤45 MW(th)	≤2,250 kW(th)	households/ communities/ and (SMEs).	≤60 ktCO _{2e} /y	≤3000tCO _{2e} /y	households/ communities/ and (SMEs).
Generic CPA defined in the PoA-DD	≤45 MW(th)	≤150 kW(th)	households/ Small farms	≤60 ktCO _{2e} /y	≤5 tCO _{2e} /y	households/ Small farms
1 st real case CPA	11.41 MW(th)	3.26 kW(th)	households	494 tCO _{2e} /y	0.14 tCO _{2e} /y	households

However, CL PoA-E4 was raised and successfully closed.

Based on the assessment above, It is TUV-Nord's opinion that the PoA is assessed to be additional.

5.2.6 Monitoring Methodology

The monitoring plan is in compliance with the applied monitoring methodologies AMS-I.I., AMS-III.R. and AMS-III.D.

5.2.7 Monitoring Plan

According to the applied methodologies, all monitoring parameters required by the applied methodologies are contained in the monitoring plan. They are:

- Number of biogas digester and biogas cook stoves commissioned ($N_{k,0}$, Only one type of thermal application used in the PoA and considered for the calculation of emission reduction, so, k represents the biogas cook stove)
- Proportion of $N_{k,0}$ that remain operating at year y ($n_{k,y}$)
- The net quantity of biogas consumed by the biogas stoves in year y ($BS_{k,y}$)
- Annual average number of animals of type LT in year y ($N_{LT,y}$), determined by:
 - $N_{p,y}$: Number of animals produced annually of type LT for the year y
 - $N_{da,y}$: Number of days animal is alive in the farm in the year y
- Soil application of the final sludge

For Sampling-based parameters

Among the above monitoring parameters, the sampling-based parameters are $N_{LT,y}$ ($N_{p,y}$ and $N_{da,y}$), $n_{k,y}$ and soil application of the final sludge. The sampling plan for these three sampling-based parameters is described in section B.7.1 in accordance with the Appendix 3 of "*Recommended Outline for a Sampling Plan*" in the "*Standard for sampling and surveys for CDM project activities and programme of activities*" version 02.0.

A detailed sampling plan has been provided according to "Standard for Sampling and Surveys for CDM Project Activities and Programme of Activities" (Version 02.0) EB 65 Annex 2 and "Best practices examples focusing on sample size and reliability calculations" (Version 01.0) EB67, Annex 6. The target population, sampling method, sampling size determination and sampling frame have been provided in the PoA-DD.

It has been confirmed that for all monitoring parameters, conservative approaches have been ensured. The monitoring plan can be implemented and all the monitoring arrangements are feasible within the PoA design.

However, CAR PoA-E8 and CAR PoA-E9 were raised and successfully closed.

5.2.8 Project Management Planning

The competencies and the management system of CME is defined in Section A.4.2.2, A.4.4 and E.7.2 of the POA-DD and it is assessed to be appropriate for the purpose of the projects monitoring. The overall responsibility for the monitoring will be held by the CME of Lanzhou Hualong Poultry Breeding Co.. The CME is responsible to assign the collection work and check work of monitoring data for CPAs of the PoA. All monitoring data will be kept in the library system/database managed by the CME. Emission reduction calculation will be based on data collected and installed in the library system/database. The library system/database is confirmed as the data management system designed specifically for the PoA to ensure the data accuracy, to avoid double counting, to addressing uncertainty (QA/QC), and to manage 100% monitoring data storage for the monitoring of all CPAs.

Regarding the sampling for estimating the values of parameters ($N_{LT,y}$, $n_{k,y}$ and soil application of the final sludge), the values for $n_{k,y}$ will be estimated by sampling in accordance with the relevant sampling requirements in AMS-I.I. version 04.0 separately and independently for each of the CPAs included in a PoA. As there is no specific sampling requirement for $N_{LT,y}$ in AMS-III.R. version 03 and AMS-III.D. version 18 and no specific sampling requirement for soil application of the final sludge in AMS-I.I., the values for $N_{LT,y}$ and soil application of the final sludge will be estimated by sampling in accordance with the relevant sampling requirements in Sampling Standard (version 02.0, EB 65 Annex 2). The same was verified by the validation team via checking the section B.7.2 of the PoA-DD to be consistent with the paragraphs 9 and 19 of Sampling Standard (version 02.0, EB 65 Annex 2).

As the CME opts for a verification method that does not use sampling but verifies each CPA, a transparent database is defined and described in section A.4.4.2 that ensures that no double accounting occurs and that the status of verification can be determined anytime for each CPA. The same was verified by the validation team.

However, CAR PoA-A8 and CAR PoA-E9 were raised and successfully closed.

5.2.9 Crediting Period and PoA Duration

As per the PoA requesting registration uploading procedures, the start date of the PoA is defined as the starting date of the whole PoA crediting period. The start date of crediting period has been unambiguously stated in the PoA-DD section B.1, i.e. 2013-01-01 or on the date of registration, whichever is later. The PoA duration is stated in the PoA-DD section B.2 as 28 years, which is deemed appropriate.

5.2.10 Environmental Impacts

Environmental Analysis is chosen to be done at PoA level.

As per the notification by NDRC on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202)^{/NDRCN/}, issued on 2011-09-13, the EIA of rural household biogas project should not be conducted and local province environmental bureau should issue the letter of exempting the EIA as the approval of EIA. The letter^{/EIAA/} of exempting the EIA for this PoA (Gan Huan Bian

Ping Zi Di [2011] No.133) was issued by Gansu Environment Protection Bureau on 2011-09-30. As per this letter^{/EIAA/} of exempting the EIA for this PoA, EIA is unnecessary for this kind of PoA because use of biogas digester can improve the local environment but not bring any negative impact on local environment. The same was verified by the validation team via checking the relevant documents^{/NDRCN//EIAA/}. Also, through cross-checking the Chinese Law on Environmental Impact Assessment (President Decree No.77)^{/EIAL/}, the validation team can further confirm that no conducting the EIA by this PoA is compliant with Chinese regulations and Law.

Nevertheless, CL PoA-C1 was raised and successfully closed.

5.2.11 Comments by Local Stakeholders

The PP followed the invitation procedure for stakeholder comments on the PoA level in line with relevant requirements. The choice of the PoA level was sufficiently justified in the PoA-DD. The Gansu Province Rural Energy Office as well as its affiliated local rural energy offices located in all counties throughout Gansu province, as the co-operator of CME, can make sure that the stakeholder consultation process covers the whole Gansu province.

On 2011-03-01, the bulletin of the stakeholder opinion survey for the PoA was published by CME on the website of Gansu Province Rural Energy Office^{/SHCL/}. The bulletin contains the brief introduction of the PoA and invites the relevant stakeholders in Gansu province to comment on the PoA through the phone of Gansu Province Rural Energy Office or through going to the local county rural energy offices and taking the questionnaires. No comment was received, which was verified by the validation team via interviewing with the representatives from Gansu Province Rural Energy Office^{/IM02/} and CME of Lanzhou Hualong Poultry Breeding Co.^{/IM01/}.

On 2011-03-02, Gansu Province Rural Energy Office issued the notification^{/SHCL/} on the implementation of stakeholder consultation for the PoA (Gan Nong Neng Han[2011] No.11) to all the local county rural energy offices in Gansu province. This notification^{/SHCL/} requires the local county rural energy offices should publish the bulletin of the stakeholder opinion survey for the PoA in respective county and distribute and collect the questionnaires.

On 2011-03-30, the consultant of A&T Carbon Asset Co., Limited have provided the training of stakeholder survey method to the relevant workers from CME of Lanzhou Hualong Poultry Breeding Co., Gansu Province Rural Energy Office and all local county rural energy offices in Gansu province^{/SHCL/}.

During the period of March 2011 and April 2011, the Local Rural Energy Offices and the CME went to countryside to distribute questionnaires; meanwhile, some householders got the questionnaires by themselves directly from Local Rural Energy Offices. Totally 90copies of questionnaires in different counties were returned, which was verified by the validation team via interviewing with the representatives from Gansu Province Rural Energy Office^{/IM02/}, local rural energy offices^{/IM02/} and CME of Lanzhou Hualong Poultry Breeding Co.^{/IM01/} and through checking the questionnaires and onsite consultation photos^{/SHCL/}. The questionnaires show that 100% of the investigated people are supportive to the project construction and no negative comments have been received.

Based on the on-site validation investigation, all relevant local stakeholders have been invited to comment on the PoA, and a summary of comments is available in section D.3 of the PoA-DD. And given the positive comments received, no significant comment was necessary to be taken into account.

TÜV NORD has checked all the relevant evidence received^{/SHCP/} and considers the local stakeholder consultation at PoA level to be carried out adequately.

However, CAR PoA-D1 was raised and successfully closed.

5.2.12 CPA Eligibility Criteria

A complete list of CPA Eligibility Criteria has been set up in section A.4.2.2 of the PoA-DD and section B.2 of the generic CPA-DD, and is deemed appropriate and sufficient. For detailed assessment, please refer to ANNEX 6 of this validation report.

However, CAR PoA-A8 was raised and successfully closed.

6 VALIDATION OPINION

A&T Carbon Asset Co., Limited has commissioned the TÜV NORD JI/CDM Certification Program (CP) to validate the programme of activities (PoA): “Biogas Development Programme at household/ small farm level in Gansu Province” with regard to the relevant requirements of the UNFCCC for CDM project activities, as well as criteria for consistent project operations, monitoring and reporting. UNFCCC criteria include article 12 of the Kyoto Protocol, the modalities and procedures for CDM (Marrakech Accords) and the relevant decisions by COP/MOP and CDM Executive Board.

In the course of the validation 18 Corrective Action Requests (CARs) and 6 Clarification Requests (CLs) were raised and all have been successfully closed. Besides, No Forward Action Request (FAR) has been raised.

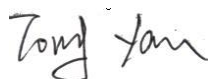
The review of the PoA design documentations and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews and review of comments by parties, stakeholders and NGOs have provided TÜV NORD JI/CDM CP with sufficient evidence to validate the fulfilment of the stated criteria.

In detail the conclusions can be summarised as follows:

- The PoA is in line with all relevant host country criteria (P.R. China) and all relevant UNFCCC requirements for CDM. Project activity approvals (LoAs) have been obtained from DNA of P.R. China dated February 2012 and from DNA of United Kingdom of Great Britain and Northern Ireland dated 2012-04-02.
- The baselines have been appropriately identified as per the applied methodologies.
- The PoA additionality is sufficiently justified in the PoA-DD.
- The eligibility criteria established for CPA inclusion are deemed appropriate and sufficient.
- The monitoring plan is transparent and adequate.
- The calculation of the emission factors and the CPA emission reductions is carried out in a transparent and conservative manner.
- Information on the local stakeholders' consultation by the project participants prior to submitting the PoA for validation is sufficiently provided in the PoA-DD.
- All information has been also consistently applied in the generic CPA-DD form.

The conclusions of this report show, that the PoA, as it was described in the project documentations, is in line with all criteria applicable for the validation.

Shanghai, 2012-11-14




Yan Tao

TÜV NORD JI/CDM CP

Validation Team Leader

Essen , 2012-11-14



Dr. Jochen Schubert

TÜV NORD JI/CDM CP

Final Approver

7 REFERENCES

Table 7-1: Documents provided by the project participant

Reference	Document
/CONF/	Lanzhou Hualong Poultry Breeding Co.: Board decision regarding the voluntary coordinated action for the proposed PoA, dated 2011-07-20.
/CDA/	Gansu Province Rural Energy Office and Lanzhou Hualong Poultry Breeding Co.: The cooperation development agreement for <i>Biogas Development Programme at household/ small farm level in Gansu Province</i> , signed on 2011-10-25.
/CIM/	A&T Carbon Asset Co., Limited: CPA Inclusion Manual, version 01 dated 2012-04
/CPA-DD-G/	A&T Carbon Asset Co., Limited: <i>Generic SSC-CPA-DD of Biogas Development Programme at household/ small farm level in Gansu Province</i> , version 01 dated 2011-08-30 (webhosted) and version 03 dated 2012-09-19 (final).
/CPA-DD-R/	A&T Carbon Asset Co., Limited: <i>Real-case SSC-CPA-DD of Biogas Development Programme at household/ small farm level in Gansu Province</i> , version 01 dated 2011-08-30 (webhosted) and version 03 dated 2012-09-19 (final).
/CPAN/	Gansu Province Rural Energy Office: The proof on 3,500 households of the CPA0001 in Jingning county, Pingliang city of Gansu province, issued on 2011-10-25.
/EIAA/	Gansu Environment Protection Bureau: <i>Letter on the EIA exemption and approval for the PoA of Biogas Development Programme at household/ small farm level in Gansu Province (Gan Huan Bian Ping Zi Di [2011] No.133)</i> , issued on 2011-09-30.
/FSRA/	The Gansu Development and Reform Commission and the Gansu Department of Agriculture and Animal Husbandry: <i>The notification on the construction scheme for the PoA of Biogas Development Programme at household/ small farm level in Gansu Province (Gan Fa Gai Tou Zi [2011] No.1398)</i> , issued on 2011-08-29.
/HCA/	National Development and Reform Commission (DNA of P.R. China): Letter of approval (No.3687), issued February 2012.
/License/	Lanzhou City Administration for Industry and Commerce: <i>Business license of Lanzhou Hualong Poultry Breeding Co. (No.620104100004514(1-1))</i> , issued on 2009-10-20.

Reference	Document
/LOA/	Environment Agency (DNA of the United Kingdom of Great Britain and Northern Ireland): Letter of Approval, issued on 2012-04-02.
/MOC/	Modalities of Communication for the proposed PoA, dated 2012-02-06
/NDRCN/	NDRC and Ministry of Agriculture of China: <i>Notification on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202)</i> , issued on 2011-09-13.
/PoA-DD/	A&T Carbon Asset Co., Limited: <i>SSC-PoA-DD of Biogas Development Programme at household/ small farm level in Gansu Province</i> , version 01 dated 2011-08-30 (webhosted) and Version 02 dated and version 03 dated 2012-09-19 (final).
/SHCP/	Stakeholder consultation process evidence: <ul style="list-style-type: none"> ➤ Lanzhou Hualong Poultry Breeding Co.: <i>bulletin on the stakeholder opinion survey for the PoA of Biogas Development Programme at household/ small farm level in Gansu Province</i>, published at the website of Gansu Province Rural Energy Office on 2011-03-01. ➤ Gansu Province Rural Energy Office: <i>The notification on the implementation of stakeholder consultation for the PoA of Biogas Development Programme at household/ small farm level in Gansu Province (Gan Nong Neng Han[2011] No.11)</i>, issued on 2011-03-02. ➤ Lanzhou Hualong Poultry Breeding Co.: 90 copies of Stakeholder consultation questionnaires for the PoA, dated 2011-04. ➤ Photos of stakeholders' questionnaire survey by CME dated 03/2011 for the proposed PoA. ➤ Lanzhou Hualong Poultry Breeding Co. and A&T Carbon Asset Co., Limited: Training Manual including the stakeholder survey method, dated 2011-03-30.
/TCFC/	Templates of CDM File CARDS: <ul style="list-style-type: none"> ➤ CDM File CARD 1: Household information prior to implementation of the CPA, which should be signed by the householder. ➤ CDM File CARD 2: Household information after implementation of the CPA, which should be signed by the householder.
/XLS/	Emission reduction calculation spreadsheet(ER)

Table 7-2: Background investigation and assessment documents

Reference	Document
/AMS.I.I/	Applied methodology of Biogas/biomass thermal applications for households/small user (AMS-I.I. version 02 used in the draft phase and AMS-I.I. version 04.0 used in the final phase).
/AMS.III.D/	Applied methodology of Methane recovery in animal manure management systems(AMS-III.D. version 17 used in the draft phase and AMS-III.D. version 18 used in the final phase)
/AMS.III.R/	Applied methodology of Methane recovery in agricultural activities at household/small farm level (AMS-III.R. version 02 used in the draft phase and AMS-III.R. version 03 used in the final phase)
/CPM/	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)
/EIAL/	Law of the People's Republic of China on Environmental Impact Assessment (President Decree No.77), issued by the president of P.R. China on 28 October 2002 and into force on 2003-09-01.. http://www.gov.cn/gongbao/content/2002/content_61822.htm
/ERC/	<i>Response to the submission SSC_599 requesting clarification regarding applications of AMS-I.I v02, AMS-III.R v02 and AMS-III.D v18, submitted by TUV-NORD and responded by SSC WG 35 dated 30 January–02 February 2012.</i>
/GSP/	UNFCCC website: Global Stakeholder Consultation Process for the PoA in the period of 2011-09-14 to 2011-10-13 and no comment is received. http://cdm.unfccc.int/ProgrammeOfActivities/Validation/DB/P332KPA9I7PLWAM3250K4M23FTP4X6/view.html
/KPI/	Kyoto Protocol (1997)
/MA/	Decision 3/CMP. 1 (Marrakesh – Accords&Annex to decision (17/CP.7))
/MOCP/	Procedures for modalities of communication between project participants and the executive board (version 01, EB 45 Annex59)
/PoA-DDs-T/	<p>CDM-SSC-PoA-DD- Small-Scale CDM Programme of Activities Design Document form (version 01, EB 33 Annex 43 and version 01.0, EB66 Annex 13).</p> <p>Guidelines for CDM-SSC-PoA-DD- Guidelines for completing the programme design document form for small-scale CDM programmes of activities (version 01.0, EB66 Annex 13).</p> <p>CDM-SSC-CPA-DD- Small-Scale CDM Programme Activity Design Document form (version 01, EB 33 Annex 44 and version 01.0, EB66 Annex 17).</p>

Reference	Document
	<p>Guidelines for CDM-SSC-CPA-DD- Guidelines for completing the component project design document form for small-scale component project activities (version 01.0, EB66 Annex 17).</p>
<p>/PoAR/</p>	<p>CDM Programme of Activities Requirements::</p> <ol style="list-style-type: none"> 1. “Best practices examples focusing on sample size and reliability calculations” (Version 01.0) EB67, Annex 6. 2. Clean Development Mechanism Validation and Verification Manual (version 01.2; EB55 Annex 1, esp. para 165 – 168) 3. “Procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission reductions for a programme of activities” (version 04.1, EB 55 Annex 38) (the “PoA Procedures”); 4. “Clarifications regarding the procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission reductions for a programme of activities” (version 01, EB 60 Annex 26) 5. “Procedures for review of erroneous inclusion of a CPA” (version 03, EB 61 Annex 22) (the “CPA Review Procedures”) 6. Guideline on assessment of debundling for SSC project activities (version 03, EB54 Annex 13) 7. “Procedures for approval of the application of multiple methodologies to a programme of activities” (version 01; EB 47 Annex 31) (the “Multi-Meth Approval Procedures”); 8. Guideline on the demonstration of additionality of small-scale project activities (Version 09.0, EB68 Annex 27) 9. Standard for demonstration of additionality of GHG emission reductions achieved by a programme of activities (version 01.0, EB 63 Annex 2) 10. Standard for the development of eligibility criteria for the inclusion of a project activity as a CPA under the PoA (version 01.0, EB 63 Annex 3) 11. Standard for application of multiple CDM methodologies for a programme of activities (version 01.0, EB 63 Annex 4) 12. Implementation plan for standards for programme of activities (version 01.0, EB 64 Annex 2) 13. Standard for sampling and surveys for CDM project activities and programme of activities (version 02.0, EB 65 Annex 2) 14. Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities (version 01.0, EB65 Annex 3)
<p>/SHCL/</p>	<p>State Environmental Protection Administration: <i>Interim Measures for stakeholder participation in EIA (Huan Fa [2006]No.28)</i>, issued on 2006-02-</p>

Reference	Document
	14 and into effect on 2006-03-18.
/SSCG/	General Guidelines to SSC CDM methodologies, version 17, EB 61 Annex 21 (used in draft phase) and version 18, EB66 Annex 23 (used in final phase)
/Standr/	<p>1) Biogas digester <i>Chinese agricultural Industry standard: NY/T 1639-2008</i>, issued 2008-05-16, in effect since 2008-07-01.</p> <p>2) Domestic biogas stove <i>National Standard of China, GB/T 3606-2001</i>, issued 2001-11-12, in effect since 2002-03-01.</p> <p>3) Biogas lighting <i>Chinese Agricultural Industry Standard: NY/T 344-1998</i>, issued on 1998-06-01 and was effective on 1999-01-01.</p> <p>4) Coal stove <i>National Standard of China, GB/T 6412-2009</i>, issued 2009-10-30, in effect since 2010-04-01.</p>
/Tier2/	Tier 2 approach to estimate CH ₄ emissions from manure management, Chapter 10 "Emissions from Livestock and Manure Management", under the volume 4 "Agriculture, Forestry and Other Land Use" of the "2006 IPCC Guidelines for National Greenhouse Gas Inventories"
/UNDP/	United Nations Development Programme(UNDP): " <i>Clean Energy for Development and Economic Growth: Biomass and Other Renewable Energy Options to Meet Energy and Development Needs in Poor Nations</i> ", dated 2002.
/VRB/	Energy Saving Monitoring Centre of Gansu Province: <i>Efficiency Test reports of 100 rural coal stoves in Jingning Country of Gansu province</i> , dated 2011-07.
/VRP/	Biogas Equipment Quality Supervision, Inspection and Test Centre of Agriculture Ministry of China: Verification report for Lvbaihe biogas stove manufactured by Beijing Hebaiyi Ecological Energy Development Co., Ltd., Report No. Wei 2011-09-04, dated 2011-09-07.
/VVM/	Validation and Verification Manual (Version 1.2; EB 55 Annex 1)

Table 7-3: Websites used

Reference	Link	Organisation
/baidu/	1. http://baike.baidu.com/view/36976.htm 2. http://baike.baidu.com/view/43456.htm	1. Baidu website: Introduction on Gansu province 2. Baidu website: Introduction on biogas utilization technology
/dna/	1. http://cdm.ccchina.gov.cn/website/CDM/pdf/Item_new/Item_new7936.pdf 2. http://www.environment-agency.gov.uk/business/topics/pollution/129666.aspx	1. National Development and Reform Commission (DNA of P.R. China): LoA issuance of the proposed PoA. 2. Environment Agency (DNA of United Kingdom of Great Britain and Northern Ireland)
/cd4cdm/	www.cd4cdm.org	UNEP Riso Centre
/ipcc/	www.ipcc-nggip.iges.or.jp	IPCC publications
/unfccc/	http://cdm.unfccc.int	UNFCCC
/wiki/	http://en.wikipedia.org/wiki/Kansu	Wikipedia website
/minbei/	http://www.greatwuyi.com/mb/rb/2006-12/14/content_21296.htm	Minbei newspaper: the utilization of treated slurry and residue, dated 2006-12-14

Table 7-4: List of interviewed persons from 2011-11-14 to 2011-11-19

Reference	Mol ¹		Name	Organisation / Function
/IM01/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Yang Fa Zhong	Lanzhou Hualong Poultry Breeding Co./ project manager / Office manager
/IM01/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Gu Dong	Lanzhou Hualong Poultry Breeding Co./ Project manager
/IM01/	V	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms	Huang Jing	A&T Carbon Asset Co., Limited / Project manager
/IM01/	V	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms	Zhang Jing Jing	A&T Carbon Asset Co., Limited / Project manager
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Sai Yong	Gansu Province Development and Reform Commission / officer
/IM02/	V	<input checked="" type="checkbox"/> Mr.	Zhai Xiao Peng	

Reference	Moi ¹		Name	Organisation / Function
		<input type="checkbox"/> Ms		
/IM02/	V	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms	Jiang Yong Bo	Gansu Province Environmental Protection Bureau / officer
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Luo Ji Xue	Gansu Province Rural Energy Office / Office manager
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Li Yin Zhong	Gansu Province Rural Energy Office / Vice office manager
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Li Cun Shi	PingLiang City Rural Energy Office of Gansu Province / Office manager
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Sun Bu Gong	Jingning County Government of Pingliang city, Gansu Province / Vice County head
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Guo Yu	Jingning County Rural Energy Office of Pingliang city, Gansu Province / Office manager
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Qi Gu Yuan	Min Zhai village, Yuan An township, Jingning County, Pingliang city, Gansu Province / villager
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Guo Wei Qi	
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Jin Lan Ping	
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Qi Deng Ju	
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Jin Bai Zhou	
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Pan Shen Zhou	Yan Zhuang village, Ling Zhi township, Jingning County, Pingliang city, Gansu Province / villager
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Chen Ba Zi	
/IM02/	V	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms	Chen Guo Xiang	

¹⁾ Means of Interview: (Telephone, E-Mail, Visit)

ANNEX

- A1:** Validation Protocol
- A2:** Assessment of Baseline Identification
- A3:** Assessment of Financial Parameters
- A4:** Assessment of Barrier analysis
- A5:** Outcome of the GSCP
- A6:** Eligibility Criteria Assessment
- A7:** Appointment certificates of the team members

ANNEX 1: VALIDATION PROTOCOL

Table A-1-1: CDM-POA-DD Requirements Checklist

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
A. General Description of the Programme of Activities				
A.1. Title of the PoA	<i>Document information shall be checked</i>			
A.1.1. Are title, current version number and the date of document completion given in section A.1 of the PoA-DD?	<p><i>Description:</i> The title of the PoA-DD, the version number and the date of completion are appropriately provided under section A.1 of the PoA-DD.</p> <p><i>Justification of evidence:</i> During the document review, the PoA-DD and PoA-DD template have been checked.</p> <p><i>Conclusion:</i> No incompleteness has been identified, the requirement is fulfilled.</p>	/PoA-DD/ /PoA-DDs-T/	OK	OK
A.1.2. Has the latest version of the CDM-SSC-POA-DD form been applied? (EB 55 Annex 1, § 55) <i>The latest version is available at http://cdm.unfccc.int/Reference/PDDs_Forms/PoA/index.html</i>	<p><i>Description:</i> The latest version 01 of the CDM-SSC-PoA-DD form has been correctly applied.</p> <p><i>Justification of evidence:</i> During the document review, the PoA-DD has been cross-checked against PoA-DD template version 01 and the unfccc website.</p> <p><i>Conclusion:</i> The latest version 01 of CDM-SSC-PoA-DD template was applied and the requirement is fulfilled.</p>	/PoA-DD/ /PoA-DDs-T/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p>A.1.3. Has the POA-DD been duly filled w.r.t. all sections in accordance with the latest guidance(s) and procedures and all information are consistently described?</p> <p>(EB 55 Annex 1, §§ 56, 57)</p> <p><i>As currently no guidelines for completing the PoA-DD are available the guidelines for completing the LSC/ SSC project shall be considered where deemed applicable.</i></p>	<p><i>Description:</i> As per EB55 Annex 1 §§ 56, 57, the PDD should be completed in accordance with the applicable CDM requirements for completing PDDs. Thus, the requirements stipulated in CDM-SSC-PoA-DD form should be fulfilled. The PoA-DD has been duly filled in accordance with the requirements of CDM-SSC-PoA-DD form.</p> <p><i>Justification of evidence:</i> During the document review, the PoA-DD has been cross-checked against the CDM-SSC-PoA-DD form version 01.</p> <p><i>Conclusion:</i> No noncompliance has been identified and the requirement is fulfilled.</p>	<p>/PoA-DD/ /PoA-DDs-T/</p>	OK	OK
A.2. Description of the PoA	<i>Description regarding the general operating and implementing framework, the policy measure and the voluntary action shall be checked</i>			
<p>A.2.1. Has a sufficient description of general operating and implementing framework of the PoA been given?</p> <p>(EB 55 Annex 38, § 6)</p>	<p><i>Description:</i> The general operating and implementing framework of the PoA has been set and sufficiently described in the PoA-DD.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked against the paragraph 6 of Annex 38 EB 55.</p> <p><i>Conclusion:</i> The description of operating and implementing framework of the PoA is sufficient.</p>	<p>/PoA-DD/ /PoAR/</p>	OK	OK
<p>A.2.2. Is the PoA describing the policy/measure or stated goal that the PoA seeks to promote in a transparent and sufficient manner?</p> <p>(EB 55 Annex 38, §6 (c))</p> <p><i>This encompasses incentive schemes and voluntary programmes, which leads to anthropogenic GHG emission</i></p>	<p><i>Description:</i></p> <p>The policy/measure or stated goal of the PoA is described in section A.2 of the PoA-DD. But, it is not complete.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and stakeholders were interviewed during onsite visit.</p> <p><i>Conclusion:</i> The CAR PoA-A1 is raised.</p>	<p>/PoA-DD/ /PoAR/ /FSRA/ /IM01/ /IM02/</p>	CAR PoA- A1	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>reductions or net anthropogenic greenhouse gas removals by sinks.</i>				
A.2.3. Has a confirmation been given that the proposed PoA is a voluntary action by the coordinating/managing entity? (EB 55 Annex 38, §6(d))	<i>Description:</i> Section A.2 of the PoA-DD states that the coordinating/managing entity confirms that the PoA is a voluntary action. But, this confirmation has not been received during onsite visit. <i>Justification of evidence:</i> The confirmation is not available. <i>Conclusion:</i> CAR PoA-A1 is raised.	/PoA-DD/ /PoAR/	CAR PoA- A1	OK
A.2.4. Will the PoA create other environmental or social benefits than GHG emission reductions? (EB 55 Annex 1, §§ 125 – 127) <i>Describe the other positive aspects not related to GHG emission reduction on the environment.</i>	<i>Description:</i> The PoA will create other environmental or social benefits than GHG emission reductions. <i>Justification of evidence:</i> The LoA from host party is not available and thus it cannot be confirmed that the PoA assists China in achieving sustainable development. <i>Conclusion:</i> The PoA will create other environmental or social benefits than GHG emission reductions.	/PoA-DD/ /PoAR/	OK	OK
A.2.5. Has information regarding the annual average emission reductions of the PoA or the 1 st CPA over the first crediting period been included in the description of the PoA? <i>PoA Requesting for Registration uploading step 4 requirement.</i>	<i>Description:</i> This information regarding the annual average ERs of the PoA or the 1st real case CPA has not indicated in PoA-DD. <i>Justification of evidence:</i> The PoA-DD has been checked. <i>Conclusion:</i> CAR PoA-A3 is raised.	/PoA-DD/	CAR PoA- A3	OK
A.3. CME and Participants of PoA	<i>Description regarding the CME and the project participants shall be included</i>			
A.3.1. Does the section A.3 of the POA-DD include identification of the coordinating/	<i>Description:</i> The section A.3 of the PoA-DD listed the PP from host Party and PP from Annex I Party. But, the CME is not indicated.	/PoA-DD/	GL PoA-	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
managing entity (a private or public entity), Host Party(ies) and PoA participants? (EB 55 Annex 38, §4, 6 (a)) <i>Project participants may or may not be involved in one of the CPAs related to the PoA. The operators of individual CPAs are not required to be project participants. CDM programme participation is only recorded at the PoA level. (EB 55 Annex 38, §8)</i>	<i>Justification of evidence:</i> The section A.3 of the PoA-DD has been checked against <i>EB 55 Annex 38, 6 (a) and the PoA-DD template.</i> <i>Conclusion:</i> CL PoA-A4 is raised.	/PoAR/ /PoA-DDs-T/	A4	
A.3.2. Is there any Party directly involved as project participant, and if yes, is that Party's contact details included in annex 1 of the PoA-DD and is the information provided internally consistent with section A.3 of the PoA-DD? (EB 55 Annex 1, § 52)	<i>Description:</i> Any of host Party and Annex I Party does not wish to be considered as PP. <i>Justification of evidence:</i> The PoA-DD has been checked and the representatives from CME, consultancy and local government's officials were interviewed during the on-site visit. <i>Conclusion:</i> No Party is directly involved in the PoA as project participant.	/PoAR/ /PoAR/ /IM01/ /IM02/	OK	OK
A.3.3. Has it been confirmed by the MoC that Coordinating/managing entity of the PoA communicates with the Board, and all Project participants information in the MoC is consistent with the PoA-DD? (EB 55 Annex 38, §11) <ul style="list-style-type: none"> <i>Procedures for modalities of communication between project participants and the Executive Board shall apply, with the exception that the coordinating/managing entity shall be either sole or joint focal point for each area of communication. The limit of joint focal points for the programme shall be 5, or equal to the number of host Parties if greater than 5.</i> <i>Besides, as per the UNFCCC secretariat/CDM Team's request, following points shall also be checked by DOE before submitting request for registration:</i> <i>No modifications to the template/form (e.g., modifying or deleting sections of the form) should be made;</i> 	<i>Description:</i> <input type="checkbox"/> All requirements below have been fulfilled by the submitted MoC at the time of requesting registration: <ol style="list-style-type: none"> The MoC confirms that the CME of the PoA communicates with the CDM Executive Board; The CME is either sole or joint focal point for each area of communication; Number of joint focal points for the PoA is no more than 5, or equal to the number of host Parties if greater than 5. No modifications to the template/form have been made; Each document (MOC statement including the Annex 1) have been clearly dated; Title of the project and names of CME and project 	/PoAR/ /PoAR/ /MOCP/ /IM01/ /IM02/	CAR PoA- A5	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<ul style="list-style-type: none"> Each document (MOC statement including the Annex 1) should be clearly dated; Title of the project and names of project participants and focal points should be fully consistent with those indicated in all other project documentation submitted at the request for registration stage (e.g., PDD, LOAs, etc.); Focal point scopes should be clearly and correctly indicated (e.g., one focal point entity cannot be designated with 'sole' authority while another focal point entity is designated with 'joint' authority for the same scope); Contact details and specimen signatures of focal point entities including those of project participants in Annex 1 should be correctly entered: only one telephone, fax, e-mail contact should be entered per authorized signatory. In cases where additional contact details are included, only the first indicated information will be taken into account and only the official business address of the proposed entity should be provided on the F-CDM-MOC form; the Statement of Agreement in Section 3 should be signed by one authorized signatory for each project participant; signatures made available in Section 3 should correspond to those indicated in the related Annex 1 document; focal point entities who are not designated as project participants should not sign Section 3. 	<p>participants and focal points have been fully consistent with those indicated in all other project documentation submitted at the request for registration stage (e.g., PDD, LOAs, etc.);</p> <p>7. Focal point scopes have been clearly and correctly indicated;</p> <p>8. Contact details and specimen signatures of focal point entities including those of project participants in Annex 1 have been correctly entered.</p> <p>9. All inputs are typed in without hand-written.</p> <p><input type="checkbox"/> Not all requirements above have been fulfilled by the submitted MoC at the time of requesting registration and following issues have been identified and corrections are needed:</p> <p><input checked="" type="checkbox"/> At time of writing this draft validation report, the MoC has not yet been submitted by the PP to the validation team, thus a finding is raised. After receiving the MoC, all requirements above will be checked by the validation team before closing this finding.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked and the representatives from CME and consultancy were interviewed during onsite visit.</p> <p><i>Conclusion:</i> CAR PoA-A5 is raised.</p>			
<p>A.3.4. Have the coordinating/managing entity and all Project Participants listed in section A.3 of the POA-DD obtained letter of approvals on their participation in the PoA respectively?</p> <p>(EB 55 Annex 38, §9) (EB 55 Annex 1 §44, 51, 52)</p> <p>Indicate whether a letter of approval has been received, with a clear reference to the supporting documentation.</p>	<p><i>Description:</i> The LoAs from host Party (China) and Annex I Party (United Kingdom of Great Britain and Northern Ireland) have not been received.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked and the representatives from CME and consultancy were interviewed during onsite visit.</p> <p><i>Conclusion:</i> CAR PoA-A2 is raised.</p>	/PoA-DD/ /PoAR/ /IM01/ /IM02/	CAR PoA- A2	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p><i>Indicate whether this letter was provided to the validation team by the project participants or directly by the DNA.</i></p> <p><i>Letters of approval shall be issued in accordance with the guidance provided by the CDM Executive Board (EB16, Annex 6)</i></p>				
<p>A.3.5. Does each of the written approvals confirm the following information:</p> <ul style="list-style-type: none"> i) that the corresponding party is a Party to the Kyoto Protocol; ii) that the participation is voluntary; iii) that the project contributes to the sustainable development in the country (only for host country approval(s)); iv) that the project participant's information is exactly the same as in the PoA-DD; v) that the PoA title referred in the approvals is consistent with the one in the POA-DD submitted for registration, or is there an additional specification of the PoA, e.g. POA-DD version number; vi) that the CME is authorized for its coordination and implementation of the PoA from each Host Party (only for host country approval(s)); 	<p><i>Description:</i> The LoAs from host Party (China) and Annex I Party (United Kingdom of Great Britain and Northern Ireland) have not been received.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked and the representatives from CME and consultancy were interviewed during the on-site visit.</p> <p><i>Conclusion:</i> CAR PoA-A2 is raised.</p>	/PoA-DD/ /PoAR/ /IM01/ /IM02/	CAR PoA- A2	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
vii) that the approvals are unconditional w.r.t. the above points? (EB 55 Annex 1 §45 (a-d), 46, EB 55 Annex 38 §10) <i>CME's coordination of the PoA can be authorized in the letters of approval from each Host Party or in a separate confirmation letter from each Host Party.</i>				
A.3.6. Are there any other project participants approved but not listed in the POA-DD? (EB 55 Annex 1, § 52)	<i>Description:</i> The LoAs from host Party (China) and Annex I Party (United Kingdom of Great Britain and Northern Ireland) have not been received. <i>Justification of evidence:</i> The PoA-DD has been checked and the representatives from CME and consultancy were interviewed during onsite visit. <i>Conclusion:</i> This requirement will be checked after CAR PoA-A2 is closed.	/PoA-DD/ /PoAR/ /IM01/ /IM02/	CAR PoA-A2	OK
A.3.7. Are the approvals issued from organisations listed as DNAs on the UNFCCC CDM website? (EB 55 Annex 1 §§ 44, 47, 48, 49 (b), 49 (c), 53) <i>Indicate the means of validation employed to assess the authenticity, i.e. in case of doubt whether LoA has been verified with the DNA. Further describe which entity submitted the LoA for validation.</i>	<i>Description:</i> The LoAs from host Party (China) and Annex I Party (United Kingdom of Great Britain and Northern Ireland) have not been received. <i>Justification of evidence:</i> The PoA-DD has been checked and the representatives from CME and consultancy were interviewed during onsite visit. <i>Conclusion:</i> This requirement will be checked after CAR PoA-A2 is closed.	/PoA-DD/ /PoAR/ /IM01/ /IM02/	CAR PoA-A2	OK
A.4. Technical description of the PoA	<i>Location, boundaries, technical description, eligibility criterion, additionality, operational and management plan as well as monitoring plan shall be addressed.</i>			

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
A.4.1. Location of the PoA				
A.4.1.1. Host parties	<i>Location of the PoA shall be addressed and checked.</i>			
A.4.1.1. Have all host countries been correctly listed in section A.4.1.1 of the PoA-DD? (EB 55 Annex 1, § 52)	<p><i>Description:</i> There is only one host Party of China. The host Party (China) is listed in section 4.1.1 of the PoA-DD.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked during the on-site visit.</p> <p><i>Conclusion:</i> No incompleteness has been identified and the requirement is fulfilled.</p>	/PoA-DD/ /PoAR/	OK	OK
A.4.1.2. Physical / Geographical boundary	<i>Assessment of physical / geographical boundaries of the PoA and application of national and sectoral policies / regulations within the defined boundary.</i>			
A.4.1.2.1. Does the POA-DD include a definition of the boundary for the PoA in terms of a geographical area (e.g., municipality, region within a country, country or several countries) within which all CPAs included in the PoA will be implemented? (EB 55 Annex 38, §6(b))	<p><i>Description:</i> In the PoA-DD, the project boundary was defined as Gansu province, which contains 14 cities/prefectures/regions: Lanzhou, Jiayuguan, Jinchang, Baiyin, Tianshui, Wuwei, Zhangye, Jiuquan, Pingliang, Qingyang, Dingxi, Longnan, Linxia Hui Minority Autonomous prefecture, Gannan Zang Minority Autonomous prefecture. The same is verified by the validation team by checking the evidence.</p> <p>However, the cities shown in the figure 1 of PoA-DD are not consistent with these 14 cities.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked against the public information about Gansu province^{/baidu/}.</p> <p><i>Conclusion:</i> CAR PoA-A6 is raised.</p>	/PoA-DD/ /PoAR/ /baidu/	CAR PoA- A6	OK
A.4.1.2.2. Has a clear map with English translations been provided, which	<i>Description:</i> In the PoA-DD, the project boundary was defined as Gansu province, which contains 14 cities/prefectures/regions:	/PoA-DD/	CAR PoA-	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
unambiguously delineates the geographical boundary of the PoA?	<p>Lanzhou, Jiayuguan, Jinchang, Baiyin, Tianshui, Wuwei, Zhangye, Jiuquan, Pingliang, Qingyang, Dingxi, Longnan, Linxia Hui Minority Autonomous prefecture, Gannan Zang Minority Autonomous prefecture. The same is verified by the validation team by checking the evidence.</p> <p>However, the cities shown in figure 1 of PoA-DD are not consistent with these 14 cities.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked against the public information about Gansu province^{/baidu/}.</p> <p><i>Conclusion:</i> This requirement will be checked after CAR PoA-A6 is closed.</p>	/PoAR/ /baidu/	A6	
<p>A.4.1.2.3. Are all applicable national and/or sectoral policies and regulations within that chosen boundary reflected in the determination of the baseline?</p> <p>(EB 55 Annex 38, §6(b))</p>	<p><i>Description:</i> It is not applicable because the baseline scenarios are directly determined as per the small-scale methodologies of AMS-I.I. and AMS-III.R. .</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked against the small-scale methodologies of AMS-I.I. and AMS-III.R.</p> <p><i>Conclusion:</i> This requirement is not applicable for this PoA.</p>	/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III.R/	OK	OK
A.4.2. Description of a typical CPA	<i>The description of the technology and the eligibility criteria shall be checked.</i>			
<p>A.4.2. Has the POA-DD unambiguously defined a CDM programme activity (CPA) under the PoA?</p> <p>(EB 55 Annex 38, §6)</p>	<p><i>Description:</i> Section A.4.2.1 of PoA-DD has unambiguously defined a typical CPA under the PoA and the technology used by the CPA includes three systems: fermentation system, collection system and utilization system.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and stakeholders were interviewed during onsite visit. The technology used by the CPA was checked by the validation team</p>	/PoA-DD/ /PoAR/ /IM01/ /IM02/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
	during onsite visit. <i>Conclusion:</i> A typical CPA under the PoA has unambiguously been defined in the PoA-DD.			
A.4.2.1. Technology or measures to be employed by the CPA	<i>The description of the technology / measures shall be checked.</i>			
<p>A.4.2.1.1. Does the PoA-DD contain a clear, accurate and complete description of the CPAs with regard to the technology / measures to be used?</p> <p>(EB 55 Annex 1, §§ 58, 59; EB 55 Annex 38, §6(f))</p> <p><i>The PoA-DD shall contain a clear description of a typical CPA which provides the reader with a clear understanding of the precise nature of the project activity and the technology / measure to be used.</i></p> <p><i>Describe the process undertaken to validate the accuracy and completeness of the CPA description.</i></p>	<p><i>Description:</i> The section A.4.2.1 of PoA-DD has an accurate and complete description of the technology/measures used by the CPA.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and stakeholders were interviewed during the on-site visit. The technology used by the CPA was checked by the validation team during onsite visit and cross-checked against with the biogas technology published in the well known website^{/baidu/}.</p> <p><i>Conclusion:</i> The description of the technology/measures used by the CPA is accurate and complete.</p>	<p>/PoA-DD/ /PoAR/ /IM01/ /IM02/ /baidu/</p>	OK	OK
<p>A.4.2.1.2. Is this description in accordance with the real situation or, in case of greenfield projects, is it most likely that the project will be implemented acc. to the project description?</p> <p>(EB 55 Annex 1, §§63, 64)</p>	<p><i>Description:</i> The description of the technology/measures used by the CPA is in accordance with the real situation. The CPA is of Greenfield and will be implemented as per this description.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and stakeholders were interviewed during onsite visit. The technology used by the CPA was checked by the validation team during onsite visit and cross-checked against with the biogas technology published in the well known website^{/baidu/}.</p> <p><i>Conclusion:</i> This requirement is/ will be fulfilled by the</p>	<p>/PoA-DD/ /PoAR/ /IM01/ /IM02/ /baidu/</p>	CL PoA- A7	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
	implementers. Nevertheless, the section A.4.2.1 of the PoA-DD stated that the treated slurry and residue can be used as pesticide and fertilizer respectively. The CL PoA-A7 is raised.			
A.4.2.1.3. In case the project involves alteration of the existing installation or process, is a clear description available regarding the differences between the project and the pre-project situation? (EB 55 Annex 1, §§63, 64) <i>Describe the steps taken to validate this issue.</i>	<i>Description:</i> It is not applicable because all the biogas digesters of the PoA are of Greenfield. <i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during the on-site visit. The biogas digesters used by the CPA was checked by the validation team during onsite visit. The construction scheme of PoA ^{/FSRA/} issued by the Gansu Development and Reform Commission and the Gansu Department of Agriculture and Animal Husbandry was also checked and cross-checked against with the biogas technology published in the well known website ^{/baidu/} . <i>Conclusion:</i> This requirement is not applicable.	/PoA-DD/ /PoAR/ /IM01/ /IM02/ /FSRA/	N/A	N/A
A.4.2.1.4. Does the project use state of the art technology or would the technology result in a significantly better performance than any commonly used technologies in the host country? <i>Describe the process undertaken to assess the state of the art technology.</i>	<i>Description:</i> The technology used by the PoA is state of the art in China. The construction scheme of PoA ^{/FSRA/} stipulates that the biogas digesters should be constructed as per Chinese agricultural standard ^{/Standr/} . <i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during onsite visit. The biogas digesters used by the CPA was checked by the validation team during onsite visit. The construction scheme of PoA ^{/FSRA/} and Chinese agricultural standard ^{/Standr/} were also checked. <i>Conclusion:</i> The project uses the state of the art technology.	/PoA-DD/ /IM01/ /IM02/ /FSRA/ /Standr/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
A.4.2.2. Eligibility criteria for inclusion of a CPA in the PoA	<i>The eligibility criteria shall be checked for appropriateness and completeness</i>			
<p>A.4.2.2.1. Has the definition of eligibility criteria for inclusion of a CPA under the PoA included the following information:</p> <ul style="list-style-type: none"> i) appropriate criteria for demonstration of additionality of the CPA, and ii) all type and/or extent of information (e.g. criteria, indicators, variables, parameters or measurements) that shall be provided by each CPA in order to ensure its eligibility? <p>(EB 55 Annex 38, §6(g))</p> <p><i>Assess the specified eligibility criteria in the POA-DD in order to determine whether or not these criteria are sufficient to ensure that all CPAs would comply with the CDM requirements applicable to the PoA, these requirements shall include, inter</i></p>	<p><i>Description:</i></p> <p><input type="checkbox"/> All eligibility criteria have been clearly described, esp. w.r.t. the following points, and detailed assessments are included in Annex 6 of this report:</p> <ul style="list-style-type: none"> (1) Methodology applicability requirement of the CPA (2) Other methodological / tool requirement of the CPA, (3) Technical requirement of the CPA, including procurement (4) Geographic requirement of the CPA boundary (5) De-bundling criterion for the CPA (6) Confirmation of no double-counting, e.g. to avoid the case of including a new CPA that has been already registered either as CDM project activity or as a CPA of another PoA, as well as internal double counting within all CPAs of this PoA (7) Contractual provisions to ensure that those operating the CPA are aware and have agreed that their activity is being subscribed to the PoA (8) Public funding requirement of the CPA (9) CPA start date not before PoA webhosting date 	/PoA-DD/ /PoAR/ /IM01/ /IM02/ /License/	GAR PoA- A8	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p><i>alia,</i></p> <ul style="list-style-type: none"> <i>the means of demonstrating the additionality of the CPA and</i> <i>the applicability of the applied methodology.</i> <p><i>The eligibility criteria represents an essential element of ensuring the smooth functioning of programmatic CDM, therefore the validation team may raise CARs which ensure the ease of application of the eligibility criteria. (EB 55 annex 1 para 167).</i></p> <p><i>Detailed assessment on the final criteria are included in the dedicated Annex A-6 of this report.</i></p>	<p>(10) CPA crediting period not exceed the PoA end date (11) Local stakeholder consultation prior to inclusion of the CPA (12) Environmental analysis requirement of the CPA (13) The additionality assessment criteria for each CPA (as per E.5 particularly in E.5.2 of the PoA-DD are met (14) Monitoring requirement of the CPA, including sampling and scrapping is applicable (15) The CPA shall be approved by the coordinating entity (16) Each eligibility criterion has specified at least one supporting document to be submitted at the stage of CPA inclusion.</p> <p><input checked="" type="checkbox"/> Not all eligibility criteria have been clearly described and following findings have been raised accordingly (after successful closure of all the findings, detailed assessments are to be included in Annex 6 of the final report):</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during onsite visit.</p> <p><i>Conclusion:</i> The CAR PoA-A8 is raised.</p>			
A.4.3. Assessment and Demonstration of Additionality of the PoA as a whole	<i>The assessment of additionality shall be validated with focus on whether the PoA itself is not a likely baseline scenario.</i>			
<p>A.4.3. Has it been demonstrated that in the absence of the CDM one of the following would have occurred:</p> <ul style="list-style-type: none"> <i>the proposed voluntary coordinated action would not be implemented, or</i> <i>the mandatory policy/regulation would be</i> 	<p><i>Description:</i> The stated goal of the related CDM programme activity is defined in the PoA-DD and PoA-DD tries to demonstrate the following situation in the absence of the programme activity:</p> <p><input checked="" type="checkbox"/> The proposed voluntary measure would not be implemented.</p> <p><input type="checkbox"/> The mandatory policy/regulation would be systematically not enforced and that non-compliance with those requirements is</p>	/PoA-DD/ /PoAR/ /IM01/ /IM02/	CL PoA- A9	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p><i>systematically not enforced and that non-compliance with those requirements is widespread in the country/region, or</i></p> <ul style="list-style-type: none"> <i>that the PoA will lead to a greater level of enforcement of the existing mandatory policy /regulation. (EB 55 Annex 38, §6(e))</i> 	<p>widespread in the country/region.</p> <p><input type="checkbox"/> The PoA will lead to a greater level of enforcement of the existing mandatory policy /regulation.</p> <p>The option 1 of “the proposed voluntary coordinated action would not be implemented in the absence of CDM” was selected to demonstrate the additionality of the typical PoA on the basis of the outcome of CPA level additionality demonstration.</p> <p><i>Justification of evidence:</i> The method that the demonstration of PoA additionality is based on the outcome of typical CPA level additionality demonstration (i.e. only the additionality of the typical CPA is demonstrated) is considered reasonable as per the para 7 of EB 65 annex3 “Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities (version 01.0)”. The para 7 of EB 65 Annex3” was checked by the validation team.</p> <p><i>Conclusion:</i> The demonstration of the PoA is deemed correct. But, CL PoA-A9 is raised regarding the minor issue.</p>			
A.4.4. Operational, management and monitoring plan for the PoA	<i>The operational and management arrangements shall be assessed</i>			
A.4.4.1. Operational and management plan	<i>The operational and management plan shall be assessed.</i>			
A.4.4.1.1. Has the coordinating/managing entity established the operational and management arrangements for the implementation of the PoA, which includes a record keeping system	<p><i>Description:</i> The operational and management arrangements established by CME for the implementation of the PoA include four aspects.</p> <p>(i) A record keeping system for each CPA under the PoA;</p>	/PoA-DD/ /PoAR/ /IM01/	CAR PoA- A10	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p>for each CPA under the PoA?</p> <p>(EB 55 Annex 38, §6(i))</p> <p><i>The arrangements shall be suitable and sufficient to ensure that the CME:</i></p> <ul style="list-style-type: none"> <i>will have control of all records and information related to the implementation of individual CPAs and</i> <i>will be in a position to ensure each CPA is being operated in accordance with the specific requirements of the programme.</i> <p>(EB55 annex 1, para 166)</p>	<p>(ii) A system/procedure to avoid double accounting e.g. to avoid the case of including a new CPA that has been already registered either as a CDM project activity or as a CPA of another PoA;</p> <p>(iii) The SSC-CPA included in the PoA is not a de-bundled component of another CDM programme activity (CPA) or CDM project activity.</p> <p>(iv) The provisions to ensure that those operating the CPA are aware of and have agreed that their activity is being subscribed to the PoA;</p> <p>However, each of these four aspects is not deemed to be realistic and reasonable.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during onsite visit.</p> <p>The NDRC's notification^{/NDRCN/} on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202) and the CDM agreement^{/CDA/} between Gaisu Province Rural Energy Office and CME were checked.</p> <p><i>Conclusion:</i> CAR PoA-A10 is raised.</p>	<p>/IM02/ /NDRCN/ /CDA/</p>		
<p>A.4.4.1.2. Are procedures identified for data management?</p> <p>(EB 55 Annex 1 123 (b))</p> <p><i>Check whether appropriate provisions are considered for data management including responsibilities, what records to keep, storage area of records and how to process performance documentation.</i></p>	<p><i>Description:</i> The operational and management arrangements established by CME for the implementation of the PoA are not deemed to be realistic and reasonable.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during onsite visit.</p> <p>The NDRC's notification^{/NDRCN/} on the requirements of the CDM</p>	<p>/PoA-DD/ /PoAR/ /IM01/ /IM02/ /NDRCN/</p>	<p>CAR PoA- A10</p>	<p>OK</p>

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>Check further the data archiving provisions for the project activity and ensure that provisions are made to archive data for the whole crediting period + 2 years.</i>	application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202) and the CDM agreement ^{/CDA/} between Gaisu Province Rural Energy Office and CME were checked. <i>Conclusion:</i> CAR PoA-A10 is raised.	/CDA/		
A.4.4.1.3. Has the arrangements included a system/ procedure to avoid double accounting, e.g., to avoid the case of including a new CPA that has been already registered either as CDM project activity or as a CPA of another PoA? (EB 55 Annex 38, §6(i))	<i>Description:</i> The operational and management arrangements established by CME for the implementation of the PoA are not deemed to be realistic and reasonable. <i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during the on-site visit. The NDRC's notification ^{/NDRCN/} on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202) and the CDM agreement ^{/CDA/} between Gaisu Province Rural Energy Office and CME were checked. <i>Conclusion:</i> CAR PoA-A10 is raised.	/PoA-DD/ /PoAR/ /IM01/ /IM02/ /NDRCN/ /CDA/	CAR PoA- A10	OK
A.4.4.1.4. Does a typical CPA qualify as a small scale CDM project activity as defined in decision 4 / CMP.1 annex II? (EB 55 Annex 1, § 136 (a) and EB 54 Annex 13 § 3) <i>Check if the proposed CPAs qualify within the threshold of one or more of the three possible types of small scale project activities.</i>	<i>Description:</i> The CPA of the PoA includes the Type I component and Type III component. For Type I component of the CPA The value of annual installed capacity of every CPA proposed under this PoA is no more than 45 MW(thermal) annually ^{/PoA-DD/} according to eligibility criteria 13 of PoA-DD. The first proposed CPA is estimated to have 11.41 MW(thermal) annually ^{/CPA-DD-R/} , which is further confirmed as less than 45 MW(thermal) annually; therefore, the proposed PoA is a small scale PoA. For Type III component of the CPA	/PoA-DD/ /PoAR/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
	<p>The value of annual emission reductions of every CPA proposed under this PoA is no more than 60 kt CO₂ equivalent annually^{/PoA-DD/} according to eligibility criteria 13 of PoA-DD. The first proposed CPA is estimated to have 494 tCO_{2e} emission reductions annually^{/CPA-DD-R/}, which is further confirmed as less than 60 kt CO₂ equivalent annually; therefore, the proposed PoA is a small scale PoA.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked against decision 4 / CMP.1 annex II.</p> <p><i>Conclusion:</i> No deviation has been identified.</p>			
<p>A.4.4.1.5. Has it been ensured that the small scale CPA is not a de-bundled component of another CPA or large scale CDM project activity?</p> <p>(EB 55 Annex 1, § 136 (c))</p> <p><i>Describe the steps taken to validate this issue. Pl. refer to the Compendium of guidance on debundling (EB 54, Annex 13).</i></p>	<p><i>Description:</i> The operational and management arrangements established by CME for the implementation of the PoA are not deemed to be realistic and reasonable.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during onsite visit.</p> <p>The NDRC's notification^{/NDRCN/} on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202) and the CDM agreement^{/CDA/} between Gaisu Province Rural Energy Office and CME were checked.</p> <p><i>Conclusion:</i> CAR PoA-A10 is raised.</p>	<p>/PoA-DD/ /PoAR/ /IM01/ /IM02/ /NDRCN/ /CDA/</p>	<p>CAR PoA- A10</p>	<p>OK</p>
<p>A.4.4.1.6. Has the CME made provisions to ensure that the CPA operators are aware of and have agreed that their activity is being subscribed to the PoA?</p> <p><i>Describe the steps undertaken by the CME. Check, if</i></p>	<p><i>Description:</i> The operational and management arrangements established by CME for the implementation of the PoA are not deemed to be realistic and reasonable.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during the on-site visit.</p>	<p>/PoA-DD/ /PoAR/ /IM01/ /IM02/</p>	<p>CAR PoA- A10</p>	<p>OK</p>

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>deemed necessary, appropriate provisions to meet training needs are in place.</i>	The NDRC's notification ^{/NDRCN/} on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202) and the CDM agreement ^{/CDA/} between Gaisu Province Rural Energy Office and CME were checked. <i>Conclusion:</i> CAR PoA-A10 is raised.	/NDRCN/ /CDA/		
A.4.4.1.7. Does the management plan make provisions for meeting training and maintenance needs of the implementation of the PoA? <i>Describe the process undertaken to assess the maintenance and training needs.</i>	<i>Description:</i> The operational and management arrangements established by CME for the implementation of the PoA are not deemed to be realistic and reasonable. <i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during onsite visit. The NDRC's notification ^{/NDRCN/} on the requirements of the CDM application of rural household biogas project (Fai Gai Ban Qi Hou [2011] No.2202) and the CDM agreement ^{/CDA/} between Gaisu Province Rural Energy Office and CME were checked. <i>Conclusion:</i> CAR PoA-A10 is raised.	/PoA-DD/ /PoAR/ /IM01/ /IM02/ /NDRCN/ /CDA/	CAR PoA- A10	OK
A.4.4.2. Monitoring plan	<i>The PoA general monitoring plan shall be assessed.</i>			
A.4.4.2.1. If the CME does not wish to have all CPAs verified, has a description of the proposed statistically sound sampling method/procedure to be used by DOEs for verification of the CPA GHG emission reductions been provided? (EB 55 Annex 38, §6(k)) <i>Please refer to "General Guidelines for Sampling and</i>	<i>Description:</i> Not applicable as the CME opts for a verification method that does not use sampling and every CPA will be monitored and verified. But, in section E.7.1, some monitored parameters, such as $n_{k,y}$, is defined as the sampling parameters. <i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during the on-site visit. <i>Conclusion:</i> CAR PoA-A11 is raised.	/PoA-DD/ /PoAR/ /IM01/ /IM02/	CAR PoA- A11	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>Surveys for Small-Scale CDM project Activities (Version 01)" (EB 50 Annex 30)</i>				
<p>A.4.4.2.2. In case the CME opts for a verification method that verifies each CPA, is there a transparent system defined and described in the PoA-DD that ensures:</p> <ul style="list-style-type: none"> i) no double accounting of ER occurs among all units within all CPAs, and ii) the verification status can be determined any time for each CPA? <p><i>Please assess the provisions made by the CME.</i></p>	<p><i>Description:</i> A database will be set up by the CME for recording the CPAs included in the PoA. But, this checkpoint will be addressed after the relevant content (aspect II) of CAR PoA-A10 is resolved. Thus, the CAR PoA-A11 is raised.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked and the CME was interviewed.</p> <p><i>Conclusion:</i> CAR PoA-A10, CAR PoA-A11 are raised.</p>	<p>/PoA-DD/ /PoAR/</p>	<p>CAR PoA- A10 CAR PoA- A11</p>	OK
A.4.5. Public funding of the PoA	<i>In case of public funding this should not lead to diversion of ODA to the PoA</i>			
<p>A.4.5.1. Is there a confirmation that official development assistance has not been diverted to the implementation of the PoA in case public funding is used?</p> <p>(EB 55 Annex 38, §6(n))</p>	<p><i>Description:</i> There is no public funding from Annex-I parties for the programme of activities.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during the on-site visit.</p> <p><i>Conclusion:</i> This checkpoint is fulfilled.</p>	<p>/PoA-DD/ /PoAR/ /IM01/ /IM02/</p>	OK	OK
<p>A.4.5.2. Has it been confirmed whether there are any bilateral or multilateral fund project participants involved in the PoA, and if yes, the following information shall be provided to the DOE:</p>	<p><i>Description:</i></p> <p>Not applicable as there is no public funding from Annex-I parties for the programme of activities. Thus, this means that no bilateral or multilateral fund is involved in the PoA.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked. The</p>	<p>/PoA-DD/ /PoAR/ /IM01/ /IM02/</p>	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<ul style="list-style-type: none"> Full official name of the entity fund; Name of company managing the fund; Party(ies) authorizing participation of the Fund; DNA approval of voluntary participation in the PoA and confirmation that it has ratified the Kyoto Protocol; DNA authorization of the fund to the project participant (can be combined with the approval document) (EB 55 Annex 1, para 100 (b)) <p><i>Multilateral funds do not necessarily require written approval from each participant's DNA. However those not providing a written approval may be giving up some of their rights and privileges in terms of being a Party involved in the project. (Glossary of CDM terms (version 5))</i></p>	<p>representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during onsite visit.</p> <p><i>Conclusion:</i> This checkpoint is not applicable.</p>			
B. Duration of the PoA				
B.1. Starting Date of the PoA	<i>The starting date shall be assessed</i>			
<p>B.1.1. What is the starting date of the PoA? Is it reasonable?</p> <p><i>The crediting period of the PoA should be renewed every seven years (every 20 years for A/R PoA) from the start date of the lifetime of the PoA.</i></p> <p><i>Life time of the PoA starts on the date specified in the PoA-</i></p>	<p><i>Description:</i> The starting date of the PoA is defined as 2012-01-01 or the date of registration of the PoA, whichever is later. But, this date is not reasonable.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked.</p> <p><i>Conclusion:</i> The CAR PoA-B1 is raised.</p>	/PoA-DD/ /PoAR/	CAR PoA- B1	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>DD section B.1 or on the date of registration, whichever is later. In case of small-scale PoA, the start date must be stated as at least 4 weeks after the estimated submission date; In case of large-scale PoA, the start date must be stated as at least 8 weeks after the estimated submission date. (PoA registration uploading requirements step 4)</i>				
B.2. Length of the PoA	<i>The length of the PoA shall be assessed</i>			
B.2.1. What is the length/lifetime of the PoA? Is it reasonable? <i>PoA duration should not exceeding 28 years (60 years for A/R) (EB 55 Annex 38, §6(h) and 7(d))</i>	<i>Description:</i> The length of the PoA is 28 years which is consistent with EB 55 Annex 38, §6(h). <i>Justification of evidence:</i> The PoA-DD has been checked against EB 55 Annex 38, §6(h). <i>Conclusion:</i> This checkpoint is fulfilled.	/PoA-DD/ /PoAR/	OK	OK
C. Environmental Analysis				
C.1. Level of Environmental Analysis	<i>The analysis shall be carried out either on PoA or CPA level</i>			
C.1.1. Has it been clearly indicated on which level i.e. PoA level or CPA level, an environmental analysis has been carried out or will be carried out? (EB 55 Annex 38 § 6(l)) <i>Please check whether the indication is in line with the provided documentation.</i>	<i>Description:</i> It is clearly indicated that the environmental analysis is done at PoA level. <i>Justification of evidence:</i> The PoA-DD has been checked against EB 55 Annex 38 § 6(l). <i>Conclusion:</i> This checkpoint is fulfilled.	/PoA-DD/ /PoAR/	OK	OK
C.1.2. Has a justification sufficiently described in	<i>Description:</i> The justification is not described in section C.1.	/PoA-DD/	GL	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
section C.1 of the PoA-DD on the choice of level at which the environmental analysis is undertaken? (EB 55 Annex 38 § 6(l))	<i>Justification of evidence:</i> The PoA-DD has been checked against PoA-DD template. <i>Conclusion:</i> The CL PoA-C1 is raised.	/PoAR/	PoA-C1	
C.2. Documentation on the analysis of the environmental impacts	<i>The analysis shall be assessed</i>			
C.2.1. Has an environmental analysis of the PoA as per requirements of the CDM modalities and procedures been undertaken and described in the POA-DD? (EB 55 Annex 38, §6(l)) <i>If this analysis is not undertaken for the PoA but is to be done at the CPA level this shall be described and reflected in the CDM-POA-DD and the CDM-CPA-DD</i>	<i>Description:</i> It is not applicable because according to the letter by Gansu Province Environmental Protection Bureau for this PoA, EIA is unnecessary for this kind of activities because use of biogas digester can improve the local environment but not bring any negative impact on local environment <i>Justification of evidence:</i> The PoA-DD and the letter ^{/EIAA/} by Gansu Province Environmental Protection Bureau have been checked. <i>Conclusion:</i> This checkpoint is not applicable.	/PoA-DD/ /PoAR/ /EIAA/	N/A	N/A
C.2.2. Are transboundary environmental impacts considered in the analysis? (EB 55 Annex 1, §§ 131 – 133) <i>Check the documents and local official sources / expertise regarding transboundary environmental impacts.</i>	<i>Description:</i> Not applicable as discussed in section C.2.1. <i>Justification of evidence:</i> <i>Conclusion:</i>	/PoA-DD/ /PoAR/ /EIAA/	N/A	N/A
C.3. Environmental impact Analysis Requirements	<i>It shall be assessed whether host Party laws / regulations require an EIA for a typical CPA</i>			
C.3.1. Are there any Host Party laws/ regulations require for an Environmental Impact	<i>Description:</i> As per the notification by NDRC on the requirements of the CDM application of rural household biogas project (Fai Gai Ban	/PoA-DD/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
Assessment (EIA) for a typical CPA that will be included in the PoA? (EB 55 Annex 1, § 136 (d)) <i>Check the relevant national environmental legislation.</i>	Qi Hou [2011] No.2202), issued on 2011-09-13, the EIA of rural household biogas project should not be conducted and local province environmental bureau should issue the letter of exempting the EIA as the approval of EIA. <i>Justification of evidence:</i> The notification ^{/NDRCN/} by NDRC and the letter ^{/EIAA/} of exempting the EIA of this PoA are checked. <i>Conclusion:</i> This checkpoint is fulfilled.	/PoAR/ /NDRCN/ /EIAA/		
C.3.2. In case an Environmental Impact Assessment (EIA) is requested by the host party, has it been appropriately carried out and if applicable duly approved? (EB 55 Annex 1, §§ 131 – 133) <i>Check the EIA and its approval, if applicable.</i>	<i>Description:</i> Not applicable as the EIA of PoA or CPAs under the PoA using rural household biogas are not required by China. <i>Justification of evidence:</i> The notification ^{/NDRCN/} by NDRC and the letter ^{/EIAA/} of exempting the EIA of this PoA are checked. <i>Conclusion:</i> This checkpoint is not applicable.	/PoA-DD/ /PoAR/ /NDRCN/ /EIAA/	N/A	N/A
D. Stakeholders' comments				
D.1. Level of Local Stakeholder comments	<i>The analysis shall be carried out either on PoA or CPA level</i>			
D.1.1. Has it been clearly indicated on which level i.e. PoA level or CPA level, local stakeholder comments have been or will be invited? (EB 55 Annex 1, §§ 127– 129) <i>Please check whether the indication is in line with the provided documentation.</i>	<i>Description:</i> The local stakeholder comments have been invited on PoA level. <i>Justification of evidence:</i> The PoA-DD has been checked. The representatives from CME, consultancy, local government's officials and local stakeholders were interviewed during the on-site visit. The documentation for stakeholder consultation process was checked. <i>Conclusion:</i> PoA level is selected for inviting the local stakeholder comments.	/PoA-DD/ /PoAR/ /SHCP/ /IM01/ /IM02/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
D.1.2. Has a justification sufficiently described in section D.1 of the PoA-DD on the choice of level at which the local consultation is conducted? (EB 55 Annex 38 § 6(m))	<i>Description:</i> The justification is not described in section D.1 of PoA-DD. <i>Justification of evidence:</i> The PoA-DD has been checked. <i>Conclusion:</i> CAR PoA-D1 is raised.	/PoA-DD/ /PoAR/	CAR PoA- D1	OK
D.1.3. Does the PoA-DD include provisions in case a stakeholder consultation process is required by regulations/laws in the host country, and if so, to ensure that the stakeholder consultation process is carried out in accordance with such regulations/ laws? (EB55 Annex38 § 6(m) &7(g) EB55 Annex1 § 128)	<i>Description:</i> As per Chinese regulation ^{/SHCL/} , the stakeholder consultation process is only conducted for EIA. As the EIA is not required by NDRC ^{/NDRCN/} , there is no regulation for the stakeholder consultation process of the PoA. <i>Justification of evidence:</i> Chinese regulation ^{/SHCL/} and the NDRC notification ^{/NDRCN/} were checked. <i>Conclusion:</i> This checkpoint is not applicable.	/PoA-DD/ /PoAR/ /NDRCN/ /SHCL/	N/A	N/A
D.2. Brief description how comments by local stakeholders have been invited and compiled.	<i>The description shall be assessed.</i>			
D.2.1. With regard to the PoA, how have local stakeholders' comments been invited prior to the publication of the PDDs and compiled? (EB 55 Annex 38, §6(m); EB 55 Annex 1, §§128– 130) <i>If such comments are to be sought at the CPA level this shall be described and reflected in the POA-DD and the CPA-DD.</i> <i>Check by means of document review and interviews with</i>	<i>Description:</i> The local stakeholders' comments was carried out in March 2011 prior to the PDD GSP date of 2011-09-14. But, the process of local stakeholders' comments is not clear. <i>Justification of evidence:</i> The PoA-DD has been checked against the NDRC notification ^{/SHCP/} and the bulletin ^{/SHCP/} by Gansu Province Rural Energy Office. <i>Conclusion:</i> CAR PoA-D1 is raised.	/PoA-DD/ /PoAR/ /SHCP/	CAR PoA- D1	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>local stakeholders if and when a local stakeholder consultation process has been carried out, and whether comments by local stakeholders that can reasonably be considered relevant for the proposed CDM project activity, have been invited.</i>				
D.3. Summary of the comments received	<i>The description shall be assessed.</i>			
D.3.1. With regard to the PoA, can the summary provided assessed as adequate and complete? (EB 55 Annex 1, §§ 128– 130)	<p><i>Description:</i> The summary is not adequate and complete and the questionnaires are not received.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked.</p> <p><i>Conclusion:</i> CAR PoA-D1 is raised.</p>	/PoA-DD/ /PoAR/	CAR PoA- D1	OK
D.4. Report on how due account was taken of comments received	<i>The description shall be assessed.</i>			
D.4.1. With regard to the PoA, has adequate due account been taken of comments received if any? (EB 55 Annex 1, §§ 128– 130)	<p><i>Description:</i> The local stakeholders' comments was carried out in March 2011 prior to the PDD GSP date of 2011-09-14. But, the process of local stakeholders' comments is not clear.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked against the NDRC notification^{/SHCP/} and the bulletin^{/SHCP/} by Gansu Province Rural Energy Office.</p> <p><i>Conclusion:</i> CAR PoA-D1 is raised.</p>	/PoA-DD/ /PoAR/	CAR PoA- D1	OK
E. Application of a Baseline and Monitoring Methodology				
E.1. Title and reference of the applied				

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
methodology				
<p>E.1.1. Does the PoA apply (an) approved, applicable and valid version of CDM methodology(ies) identical on the UNFCCC website?</p> <p>(EB 55 Annex 1, §65, 71)</p> <p><i>The methodology should be approved by the EB for use in a PoA. Describe the steps to determine whether the methodology is correctly quoted and applied by comparing it with the actual text of the applicable version of the methodology available on the UNFCCC CDM website.</i></p>	<p><i>Description:</i> The AMS-I.I. and AMS-III.R. were applied to the PoA. Because AMS-III.R. quotes the AMS-III.D, the AMS-III.D was also applied to the PoA, but the version 17 of AMS-III.D is not the latest.</p> <p><i>Justification of evidence:</i> These three methodologies were cross-checked against the latest versions in the UNFCCC website.</p> <p><i>Conclusion:</i> CAR PoA-E1 is raised.</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/ /AMS.III. D/ /unfccc/</p>	CAR PoA- E1	OK
E.2. Justification of the methodology choice and its applicability to a CPA	<i>The choice described shall be assessed</i>			
<p>E.2.1. Does a typical CPA apply a combination of approved methodologies? If so, has such combination been approved in accordance with “Procedures for approval of the application of multiple methodologies to a programme of activities”?</p> <p>(EB 55 Annex 38, §6(f) and EB 65 Annex 3, §28, 29)</p> <p><i>If a combination of approved methodologies is being applied this combination must be applied to all CPAs and must be applied in a consistent manner.</i></p>	<p><i>Description:</i> The combination of AMS-I.I. and AMS-III.R. complies with the paragraph 28 of EB 65 Annex 3, which stipulates that combinations of approved methodologies contained in the “General guidelines to SSC CDM methodologies” may be applied without further assessment of cross effects.</p> <p>As per “General guidelines to SSC CDM methodologies” version 17, the Board approved the combination of any one of the Type III methodologies where activities lead to generation of methane with any one of the Type I methodologies for utilising the methane generated for generation of renewable energy.</p> <p><i>Justification of evidence:</i> The paragraph 28 of EB 65 Annex 3 and „General guidelines to SSC CDM methodologies” version 17 were checked.</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/ /SSCG/</p>	CAR PoA- E2	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
	<i>Conclusion:</i> This checkpoint is fulfilled. But, CAR PoA-E2 is raised.			
E.2.2. Is the justification of the choice of the approved baseline and monitoring methodology(ies) for the typical CPA sufficient? (EB 55 Annex 38, §6(f))	<i>Description:</i> The justification of the choice of AMS-I.I. and AMS-III.R. were carried out. The appropriateness of this justification is concluded in section E.2.3 below. <i>Justification of evidence:</i> The PoA-DD has been checked. <i>Conclusion:</i> This checkpoint is fulfilled.	/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III. R/	OK	OK
E.2.3. Can all applicability criteria in the methodology, the applied tools or any other methodology component referred to therein be sufficiently fulfilled by a typical CPA? (EB 55 Annex 1, §§66 (a), 66 (b), 68, 70, 75) <i>Describe for each applicability criterion listed in the selected approved methodology the steps taken to assess the information contained in the POA-DD.</i>	<i>Description:</i> The justifications are carried out for the applicability of AMS-I.I. and AMS-III.R. respectively. Each applicability criterion was checked in the PoA-DD. But, some justifications are not sufficient. <i>Justification of evidence:</i> The justifications in the PoA-DD have been checked against each of the applicability criteria of the applied methodologies. <i>Conclusion:</i> CAR PoA-E2 is raised.	/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III. R/	CAR PoA- E2	OK
E.2.4. Has a typical CPA been demonstrated as in accordance with all other PoA specific stipulations and requirement mentioned in the methodology and relevant tools/guidance, e.g., leakage? (EB 55 Annex 1, §70) <i>Describe the steps taken to check whether the proposed CPA meets all the other PoA specific stipulations and /or limitations mentioned in all sections of the approved methodology selected.</i>	<i>Description:</i> The justifications are carried out for the applicability of AMS-I.I. and AMS-III.R. respectively. Some justifications are not sufficient. <i>Justification of evidence:</i> The justifications in the PoA-DD have been checked against each of the applicability criteria of the applied methodologies. <i>Conclusion:</i> CAR PoA-E2 is raised.	/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III. R/	CAR PoA- E2	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.											
E.3. Description of the sources and gases included in the CPA boundary	<i>Project Boundaries are the limits and borders defining the GHG emission reduction in project.</i>														
<p>E.3.1. Are the project’s spatial boundaries (physical) of the CPAs to be included are clearly defined?</p> <p>(EB 55 Annex 1, §§67 (a), 78 - 80)</p> <p><i>The PDD shall correctly describe the project boundary, including the physical delineation of the proposed CDM project activity included within the project boundary for the purpose of calculating project and baseline emissions for the proposed CDM project activity.</i></p> <p><i>Provide information on how the validation of the physical boundary has been performed either based on reviewed documented evidence or by describing what was observed/viewed during a site visit.</i></p>	<p><i>Description:</i> The boundary of a typical CPA is described in PoA-DD. The geographic sites of all individual biogas systems included in the CPA define the CPA boundary. A biogas system consists of a biogas digester and a cooking/combustion unit.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked, a CPA site has been visited and the officials were interviewed during onsite visit.</p> <p><i>Conclusion:</i> The project’s spatial boundaries (physical) of the CPAs to be included are clearly defined</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/ /IM01/ /IM02/</p>	OK	OK											
<p>E.3.2. Are all sources and GHGs included in the project boundary as required in the applied methodology?</p> <p>(EB 55 Annex 1, §§67 (a), 78 - 80)</p> <p><i>Provide information on how the validation of the GHGs and sources has been performed either based on reviewed documented evidence or by describing what was observed/viewed during a site visit.</i></p>	<p><i>Description:</i></p> <p>The sources and GHGs in the boundary are the following and they comply with the requirements of AMS-I.I. and AMS-III.R..</p> <table><tr><td></td><th>Source</th><th>Gas</th></tr><tr><td rowspan="2">Baseline</td><td>Thermal generation</td><td>CO₂</td></tr><tr><td>Treatment of manure and wastes from agricultural activities</td><td>CH₄</td></tr><tr><td>Project activity</td><td>Physical leakage of biogas digester</td><td>CH₄</td></tr></table> <p><i>Justification of evidence:</i> The PoA-DD has been checked against</p>		Source	Gas	Baseline	Thermal generation	CO ₂	Treatment of manure and wastes from agricultural activities	CH ₄	Project activity	Physical leakage of biogas digester	CH ₄	<p>/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/ /IM01/ /IM02/</p>	OK	OK
	Source	Gas													
Baseline	Thermal generation	CO ₂													
	Treatment of manure and wastes from agricultural activities	CH ₄													
Project activity	Physical leakage of biogas digester	CH ₄													

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
	AMS-I.I. and AMS-III.R. The local stakeholders have been interviewed during the on-site visit. <i>Conclusion:</i> This checkpoint is fulfilled.			
E.3.3. In case the methodology allows to choose whether a source and/or gas is to be included, is the choice sufficiently explained and justified? (EB 55 Annex 1, §§67 (a), 78 - 80) <i>Confirm if the justification provided by the PPs is reasonable, based on assessment of supporting documented evidence provided by the PPs or by onsite observations.</i>	<i>Description:</i> Not applicable as there is not this kind of requirement in AMS-I.I. and AMS-III.R. <i>Justification of evidence:</i> AMS-I.I. and AMS-III.R. were checked. <i>Conclusion:</i> This checkpoint is not applicable.	/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III.R/	N/A	N/A
E.3.4. Are provisions in place for the case that a CPA implementation might lead to GHG emissions within the project boundary which are expected to contribute more than 1% of the overall expected average annual emission reductions, which are not addressed by the methodology? (EB 55 Annex 1, §77)	<i>Description:</i> Additional GHG emissions within the boundary, which are expected to contribute more than 1% of the overall expected average annual emission reductions and which are not addressed by the methodologies are not caused by the implementation of the PoA. <i>Justification of evidence:</i> The project activity is a state of the art technology. During onsite visit and local stakeholders' interview, the potential such sources of GHG emissions were not observed <i>Conclusion:</i> No additional GHG emissions which are not addressed by the methodology occur.	/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III.R/ /IM01/ /IM02/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
E.4. Description of how the baseline scenario is identified and description of baseline scenario	<i>The choice of the baseline scenario will be validated with focus on whether the baseline is a likely scenario, and whether the methodology to define the baseline scenario has been followed in a complete and transparent manner.</i>			
<p>E.4.1. What possible baseline scenarios have been considered for all CPAs and are they complete according to the methodology? Does the list of alternatives contain the status-quo situation, the project not undertaken as a CDM project as well as all other viable means of supplying the outputs or services that are to be supplied by the proposed CDM project activity?</p> <p>(EB 55 Annex 1, §§ 67 (b), 82, §§ 104 – 106)</p> <p><i>Fill in all alternatives in table A-2.</i></p> <p><i>Describe how it was validated that all alternatives are plausible and no plausible alternative is excluded from the consideration.</i></p>	<p><i>Description:</i></p> <p>The baseline scenario of the PoA is that, the manure and other organic matter are left to decay anaerobically and the generated methane is emitted to the atmosphere, and the equivalent thermal energy is generated based on fossil fuel.</p> <p>The baselines of AMS-I.I and AMS-III.R are identified separately. But, the supportive documentation is not provided.</p> <p><i>Justification of evidence:</i> The PoA-DD has been against AMS-I.I. and AMS-III.R. .</p> <p><i>Conclusion:</i></p> <p><input checked="" type="checkbox"/> All plausible alternative scenarios listed in the approved methodology have been considered, incl. the status-quo situation and the project not undertaken as a CDM project. In the course of document review and site visit, it has been validated that all other alternatives which supply comparable outputs and / or services have been taken into consideration. Thus no plausible scenario has been omitted.</p> <p>However CL PoA-E3 is raised regarding the supportive documentation.</p> <p><input type="checkbox"/> The following alternative scenarios/options have been omitted, Corresponding CAR/CL PoA-xx has been raised:</p>	<p>/PoAR/ /AMS.I.I/ /AMS.III. R/</p>	<p>CL PoA- E3</p>	OK
E.4.2. Have the baseline alternatives sufficiently taken into account relevant national and/or sectoral	<p><i>Description:</i> CL PoA-E3 was raised.</p> <p><i>Justification of evidence:</i></p>	<p>/PoA-DD/ /PoAR/</p>	<p>CL PoA-</p>	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p>policies, macro-economic trends and political aspirations?</p> <p>(EB55 Annex 1, §§ 85, 87(d); EB55 Annex 38, § 6(b)) <i>Describe whether the PP has shown that all relevant policies and circumstances have been identified and correctly considered in the PDD in accordance with the guidance by the Board. Pl. consider the guidance EB 22 annex 3 (regarding E+ and E- policies).</i></p>	<p><i>Conclusion:</i></p>	<p>/AMS.I.I/ /AMS.III. R/</p>	<p>E3</p>	
<p>E.4.3. Are the provisions for the baseline scenario determination compatible with the available data and are all literature and sources clearly referenced?</p> <p>(EB 55 Annex 1, § 92(a)) <i>Describe whether the documents and sources referred to in the PDD are correctly quoted and clearly referenced.</i></p>	<p><i>Description:</i> CL PoA-E3 was raised. <i>Justification of evidence:</i> <i>Conclusion:</i></p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/</p>	<p>CL PoA- E3</p>	<p>OK</p>
<p>E.4.4. What has been identified as the baseline scenario? Has the baseline scenario been determined using conservative assumptions where possible, including relevant references and sources</p> <p>(EB 55 Annex 1, §§80-91) <i>Describe the chosen BL scenario, taking into consideration the technology that would be employed and / or the activities that would take place in the absence of the proposed CDM project activity.</i> <i>Describe whether the choice of the identified baseline scenario is</i></p>	<p><i>Description:</i> The baseline scenario of the PoA is that, the manure and other organic matter are left to decay anaerobically and the generated methane is emitted to the atmosphere, and the equivalent thermal energy is generated based on fossil fuel. The baseline is consistent with AMS-I.I. and AMS-III.R. But, the supportive documentation is not provided. <i>Justification of evidence:</i> The baseline has been checked against applied methodologies. <i>Conclusion:</i> <input type="checkbox"/> The baseline scenario is reasonable and has been determined</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/</p>	<p>CL PoA- E3</p>	<p>OK</p>

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>reasonable by validating the <u>key assumptions, calculations and rationales</u> used in the POA-DD. Describe whether these are listed, relevant and <u>conservatively interpreted</u> in the POA-DD.</i>	<p>using conservative assumptions where possible. Please refer to comments in table A-2.</p> <p><input checked="" type="checkbox"/> The following CARs / CLs have been issued because assumptions used in the baseline determination have been assessed to be not conservative</p> <p>The baseline scenario is reasonable, but the supportive documentation is insufficient. Thus, the CL PoA-E3 is raised.</p>			
E.5. CPA additionality	<i>The description shall be assessed</i>			
E.5.1. Assessment and demonstration of CPA additionality	<i>The provisions for CPA additionality assessment shall be checked</i>			
<p>E.5.1.1. Does the POA-DD include provision that a typical CPA starting date will be defined in accordance with the CDM glossary of terms and substantiated with reliable evidence?</p> <p>(EB 55 Annex 1, §101)</p> <p><i>Describe the evidence assessed regarding the prior consideration of the CDM (if necessary). Describe whether the evidence to support such consideration is adequately and transparently described in the POA-DD.</i></p>	<p><i>Description:</i> There is no provision for the expected starting dates of all CPA in PoA-DD. Thus, whether all CPAs will be commenced after the PoA GSP date of 2011-09-14, cannot be checked by the validation team.</p> <p><i>Justification of evidence:</i> The PoA-DD has been checked.</p> <p><i>Conclusion:</i> CL PoA-E4 is raised.</p>	/PoA-DD/ /PoAR/	CL PoA- E4	OK
<p>E.5.1.2. What is the starting date of the 1st CPA indicated in the real case CPA-DD section A.4.2.1? Is it after the commencement of validation of the PoA, i.e., the date on which the PDDs are first published for global</p>	<p><i>Description:</i> The start date of the first CPA is 20/09/2011, which is after the PoA GSP date of 2011-09-14.</p> <p><i>Justification of evidence:</i> Section A.4.2.1 of the real-case CPA DD has been checked.</p> <p><i>Conclusion:</i> The starting date of the 1st CPA is after the commencement of validation of the PoA.</p>	/PoA-DD/ /PoAR/ /CPA-DD-R/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
stakeholder consultations? (EB55 Annex 38 §7(d))				
<p>E.5.1.3. Does the PoA-DD make provisions to describe the additionality justification, which follows the requirements of the applied methodology and/or other methodological tools?</p> <p>(EB 55 Annex 1, §§67 (d), 94)</p> <p><i>Describe how it is validated that additionality justification is carried out in accordance with the applied methodology and/or applied methodological tools. Further focus your assessment on the reliability and credibility of data, rationales and assumptions, justifications and documentations provided by the PP.</i></p>	<p><i>Description:</i> The additionality of a CPA has been demonstrated in the PoA-DD based on “Guidelines for demonstrating additionality of microscale project activities” But, there are some minor issues about unclear information.</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”</p> <p><i>Conclusion:</i> CL PoA-E4 is raised.</p>	/PoA-DD/ /PoAR/	CL PoA- E4	OK
<p>E.5.1.4. Is an appropriate analysis method chosen for the project (simple cost analysis, investment comparison analysis or benchmark analysis)?</p> <p>(EB 55 Annex 1, §109)</p> <p><i>Describe why the selected analysis method is appropriate under consideration of potential revenues and costs, potential project alternatives and potential available benchmark values.</i></p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities” .</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
<p>E.5.1.5. Is a clear, viewable and unprotected Excel spreadsheet template available for the</p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”.</p>	/PoA-DD/ /PoAR/	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
investment calculation, if applicable? (EB 55 Annex 1, §110) <i>Describe the steps taken to validate this issue.</i>	<i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”. <i>Conclusion:</i> It is not applicable.			
E.5.1.6. If applicable, were the input values used in the investment analysis valid and applicable at the time of the investment decision with sufficient evidence? (EB 55 Annex 1, §111; EB 51 Annex 58) <i>In case the basis for input values is a Feasibility Study Report (FSR) describe how it shall be ensured that the period in time between the finalisation of the FSR and the investment decision is sufficiently short so that it is unlikely that input values would have materially changed.</i> <i>Please fill out Annex 3 of this report for detailed assessment.</i>	<i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”. <i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”. <i>Conclusion:</i> It is not applicable.	/PoA-DD/ /PoAR/	N/A	N/A
E.5.1.7. If applicable, does the period chosen for the investment analysis, reflect the technical lifetime of the proposed CPA or in case a shorter period is chosen, is the fair value of the project activity’s assets at the end of the investment analysis period (as a cash inflow) included? (EB 55 Annex 1, §111; EB 51 Annex 58) <i>Describe how the technical lifetime / period chosen for calculating financial parameter(s) is reviewed and which documents shall be utilised in the course of review. Describe</i>	<i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”. <i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”. <i>Conclusion:</i> It is not applicable.	/PoA-DD/ /PoAR/	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>furthermore the approach used to check the inclusion of a potential fair value.</i>				
<p>E.5.1.8. If applicable, has the fair value calculation included book value and expected potential profit or loss, and in accordance with local accounting regulations (where available) or international best practice?</p> <p>(EB 55 Annex 1, §111; EB 51 Annex 58)</p> <p><i>State the accounting regulations applied for calculating the fair value and describe why these are applicable under the project specific circumstances. Describe potential mismatches between regulations and the approach applied for calculating the fair value.</i></p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities” .</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities” .</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
<p>E.5.1.9. If applicable, is the book value as well as the expectation of the potential profit or loss included in the fair value calculation?</p> <p>(EB 55 Annex 1, §111; EB 51 Annex 58))</p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
<p>E.5.1.10. If applicable, are depreciation and other non-cash related items added back to net profits for the purpose to calculate the financial indicator?</p> <p>(EB 55 Annex 1, §111; EB 51 Annex 58)</p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
E.5.1.11. If applicable, is taxation excluded in the investment analysis or is the benchmark intended for post tax comparisons? (EB 55 Annex 1, §111; EB 51 Annex 58)	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities” .</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities” .</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
E.5.1.12. In case of project IRR: Are the costs of financing expenditures (loan repayments and interests) excluded from the calculation of project IRR? (EB 55 Annex 1, §111; EB 51 Annex 58)	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
E.5.1.13. In case of equity IRR: Is the part of the investment costs, which is financed by equity considered as net cash outflow and is the part financed by debt excluded in net cash outflow? (EB 55 Annex 1, §111; EB 51 Annex 58)	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
E.5.1.14. If applicable, is the type of benchmark chosen appropriate for the type of IRR calculated (e.g. local commercial lending rates or weighted average costs of capital for project IRR; required/expected returns on equity for equity IRR)?	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p>	/PoA-DD/ /PoAR/	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
(EB 55 Annex 1, §111; EB 51 Annex 58) <i>In case risk premiums are applied describe its suitability to reflect the risks associated with the project activity.</i>	<i>Conclusion:</i> It is not applicable.			
E.5.1.15. If applicable, is the benchmark value suitable for the project activity, e.g., it has been consistently used in the past for similar projects with similar risks, and is it reasonable to assume that no investment would be made at a rate of a lower return than the benchmark? (EB 55 Annex 1, §111-112; EB 51 Annex 58) <i>Describe whether it is reasonable to assume that a lower rate of return would consequently result in the baseline scenario.</i>	<i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”. <i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”. <i>Conclusion:</i> It is not applicable.	/PoA-DD/ /PoAR/	N/A	N/A
E.5.1.16. If applicable, is it ensured that the project cannot be developed by other developers than the PP? (EB 55 Annex 1, §111; EB 51 Annex 58)	<i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”. <i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”. <i>Conclusion:</i> It is not applicable.	/PoA-DD/ /PoAR/	N/A	N/A
E.5.1.17. In case of financial additionality justification; has a sensitivity 112navaila been considered and does the same contain variation of parameters that constitute more than 20% of either total project costs or total project revenues and may vary throughout the project lifetime?	<i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”. <i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”. <i>Conclusion:</i> It is not applicable.	/PoA-DD/ /PoAR/	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
(EB 55 Annex 1, §§110, 111 (e); EB 51 Annex 58) <i>Describe relevance of parameters used in the sensitivity analysis as well as their likeliness to vary during the project's lifetime. Parameters which are fixed on the basis of contracts, PPAs etc. may not be subject to variation and not adequate.</i>				
E.5.1.18. If applicable, have sensitivity analysis considered parameters constituting less than 20% of total project costs or revenues, which may have potential material impact on the financial parameter? (EB 55 Annex 1, §110; EB 51 Annex 58) <i>Describe whether those parameters are considered in the sensitivity analysis?</i>	<i>Description:</i> Not applicable as the additionality was demonstrated as per "Guidelines for demonstrating additionality of microscale project activities". <i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the "Guidelines for demonstrating additionality of microscale project activities". <i>Conclusion:</i> It is not applicable.	/PoA-DD/ /PoAR/	N/A	N/A
E.5.1.19. If applicable, is the range of variation reasonable in the specific context of the project activity, taking into consideration historic trends in the business sector? (EB 55 Annex 1, §110; EB 51 Annex 58) <i>Describe whether the range of variation is appropriate with focus on historic developments, e.g. price of oil / labour etc., energy potential in the region in question.</i>	<i>Description:</i> Not applicable as the additionality was demonstrated as per "Guidelines for demonstrating additionality of microscale project activities". <i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the "Guidelines for demonstrating additionality of microscale project activities". <i>Conclusion:</i> It is not applicable.	/PoA-DD/ /PoAR/	N/A	N/A
E.5.1.20. If applicable, are there any barriers given which have a clear and direct impact on the financial returns of the project? (EB 55 Annex 1, §§ 115, 137) <i>In case of LSC projects those issues cannot be considered as</i>	<i>Description:</i> Not applicable as the additionality was demonstrated as per "Guidelines for demonstrating additionality of microscale project activities". <i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the "Guidelines for demonstrating additionality of microscale project activities".	/PoA-DD/ /PoAR/	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p><i>barriers and shall be assessed in the investment analysis. In case of SSC projects the same fundamentals as for LSC projects shall apply, i.e. the assessment of the investment barrier according to EB 41, Annex 45.</i></p> <p><i>Please fill out Annex 4 of this report for detailed assessment.</i></p>	<p><i>Conclusion:</i> It is not applicable.</p>			
<p>E.5.1.21. If applicable, are the barriers described risk related (e.g technology failure, other performance related risks) or has the availability of sources of finance for the project been described and adequately substantiated?</p> <p>(EB 55 Annex 1, §§ 115, 137)</p> <p><i>Identified barriers shall be in accordance with the attachment A to appendix B (4/CMP.1, Annex II, paragraph 28) and Guidelines for objective demonstration and assessment of barriers (EB50 Annex 13)</i></p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per "Guidelines for demonstrating additionality of microscale project activities".</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the "Guidelines for demonstrating additionality of microscale project activities".</p> <p><i>Conclusion:</i> It is not applicable.</p>	<p>/PoA-DD/ /PoAR/</p>	N/A	N/A
<p>E.5.1.22. If applicable, has it been justified that one or a set of real barriers prevent(s) the implementation of the project activity and do not prevent the implementation of at least one of the alternatives?</p> <p>(EB 55 Annex 1, § 117 (b))</p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per "Guidelines for demonstrating additionality of microscale project activities".</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the "Guidelines for demonstrating additionality of microscale project activities".</p> <p><i>Conclusion:</i> It is not applicable.</p>	<p>/PoA-DD/ /PoAR/</p>	N/A	N/A
<p>E.5.1.23. If applicable, have the established criteria justified and evidenced that the barriers given in the PoA-DD are real and appropriate?</p> <p>(EB 55 Annex 1, § 117 (a))</p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per "Guidelines for demonstrating additionality of microscale project activities".</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the "Guidelines for demonstrating additionality of microscale project activities".</p>	<p>/PoA-DD/ /PoAR/</p>	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
	<i>Conclusion:</i> It is not applicable.			
<p>E.5.1.24. Is the defined region for the common practice analysis appropriate for the technology/industry type?</p> <p>(EB 55 Annex 1, § 120)</p> <p><i>Describe the why the project activity is not common practice in a transparent and unambiguous manner.</i></p>	<p><i>Description:</i> Not applicable as the additionality was demonstrated as per “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Justification of evidence:</i> Section E5.1 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
E.5.2. Key criteria for assessment and demonstration of CPA additionality	<i>The key criteria for CPA additionality assessment shall be checked</i>			
<p>E.5.2.1. Does the PoA-DD provide unambiguous criteria to assess the decision taken to proceed with the CPA?</p> <p><i>Describe the steps taken to validate the assessment of the decision making.</i></p>	<p><i>Description:</i> The PoA-DD provided the criteria but these criteria are not complete and unclear.</p> <p><i>Justification of evidence:</i> The section E5.2 of PoA-DD has been checked against the PoA-DD template.</p> <p><i>Conclusion:</i> CAR PoA-E5 is raised.</p>	/PoA-DD/ /PoAR/ /PoA-DDs-T/	CAR PoA- E5	OK
<p>E.5.2.2. Does the PoA-DD provide unambiguous criteria to assess that the project would not be the most economically or financially attractive alternative without the revenues from the sale of CERs?</p> <p>(EB 55 Annex 1, §108)</p> <p><i>Discuss the appropriateness of the criteria established. Pl. consider also the eligibility criteria as discussed above. Assess whether the PP has demonstrated how these criteria would be applied to assess the additionality of a typical CPA</i></p>	<p><i>Description:</i> Not applicable as the financial analysis is not used by the PoA.</p> <p><i>Justification of evidence:</i> The section E5.2 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<i>at the time of CPA inclusion.</i>				
E.5.2.3. Does the PoA-DD provide unambiguous criteria to assess the barriers identified in section E.5.1 of the PoA-DD which will prevent the CPAs occur without the CDM incentives?	<p><i>Description:</i> Not applicable as the financial analysis is not used by the PoA.</p> <p><i>Justification of evidence:</i> The section E5.2 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
E.5.2.4. In case similar projects will be identified, are there any unambiguous criteria to assess the key differences between the proposed project and existing or ongoing projects and what kind of difference has been observed? (EB 55 Annex 1, § 120)	<p><i>Description:</i> Not applicable as the financial analysis is not used by the PoA.</p> <p><i>Justification of evidence:</i> The section E5.2 of PoA-DD has been checked against the “Guidelines for demonstrating additionality of microscale project activities”.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
E.5.2.5. Are there any other key criteria and data for assessing additionality of a CPA which is necessary besides the ones mentioned above not included in the PoA-DD? <i>Please fill out Annex 6 of this report for detailed assessment of all key criteria.</i>	<p><i>Description:</i> There is no other key criteria/data that is not included in the additionality assessment of PoA-DD.</p> <p><i>Justification of evidence:</i> The “Guidelines for demonstrating additionality of microscale project activities” was checked.</p> <p><i>Conclusion:</i> It is not applicable.</p>	/PoA-DD/ /PoAR/	N/A	N/A
E.6. Estimation of Emission Reductions of a CPA				
E.6.1. Explanation of methodological choices for CPA Emission	<i>In case the applied methodology provides choices the selection of options shall be assessed</i>			

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p>E.6.1.1. In case the methodology allows for different methodological choices, are the equations applied properly justified and have they been used reflecting the other methodological choices (i.e. baseline identification)?</p> <p>(EB 55 Annex 1 §§ 90, 91)</p> <p><i>Assess the correct selection and application of methodological choices. Describe whether proper justification has been provided (based on the choice of the baseline scenario, context of a typical CPA and other evidence provided) and whether the correct equations have been used reflecting the relevant methodological choices.</i></p>	<p><i>Description:</i> The AMS-III.R. and AMS-I.I. were selected by the PoA to calculate the ERs.</p> <p>For the ERs calculation of type III components of a CPA, the calculation of baseline emissions used the method/formula in paragraph 9(a) and 10 of AMS-III.D. and the calculation of project emissions used the formula in paragraph 13 of AMS-III.D. which are consistent with the requirements of AMS-III.R.</p> <p>For the ERs calculation of type I components of a CPA, the calculation of ERs used the formula in paragraph 13 of AMS-I.I.</p> <p><i>Justification of evidence:</i> The section E6.1 of PoA-DD has been checked against AMS-III.R. ,AMS-I.I. and AMS-III.D.</p> <p><i>Conclusion:</i> The checkpoint is fulfilled.</p>	/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/ /AMS.III. D/	OK	OK
<p>E.6.1.2. In case the implementation of the project activity lead to GHG emissions within the project boundary which are expected to contribute more than 1% of the overall expected average annual emission reductions, which are not addressed by the methodology, has this parameter been included in the calculation of the emission reductions?</p> <p>(EB 55 Annex 1, §77)</p> <p><i>Please describe the extra parameters defined and calculated.</i></p>	<p><i>Description:</i></p> <p><input checked="" type="checkbox"/> The implementation of the project activity does not lead to GHG emissions within the project boundary that will contribute more than 1% of the overall expected average annual emission reductions that are not addressed by the applied methodology. Thus no extra parameter is necessary.</p> <p><input type="checkbox"/> The following GHG emissions caused by implementation of the project within the project boundary, have been identified as will contribute more than 1% of the overall expected average annual emission reductions, that are not addressed by the applied methodology:</p> <p><i>Justification of evidence:</i> AMS-III.R. and AMS-I.I. were checked. The project implementer and the relevant stakeholders were interviewed.</p>	/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/ /AMS.III. D/ /IM01/ /IM02/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
	<i>Conclusion:</i> It is not applicable.			
E.6.2. Equations, including fixed parametric values used for ER calculation				
<p>E.6.2.1. Are the equations applied correctly according to the applied approved methodology?</p> <p>(EB 55 Annex 1 §§67 (c), 89, 90, 91)</p> <p><i>Describe clearly the steps taken to assess whether the methodology has been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions. Further take into consideration that all estimates of the baseline emissions can be replicated using the data and parameter values provided in the PoA-DD.</i></p>	<p><i>Description:</i></p> <p><input checked="" type="checkbox"/> The equations applied for calculation are correctly applied according to the approved methodology.</p> <p><input type="checkbox"/> The following mistakes have been identified in this context:</p> <p><i>Justification of evidence:</i> The section E6.2 of PoA-DD has been checked against AMS-III.R., AMS-I.I. and AMS-III.D.</p> <p><i>Conclusion:</i> The checkpoint is fulfilled.</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III.R/ /AMS.III.D/</p>	OK	OK
<p>E.6.2.2. Have parameters with fixed values for the whole PoA been listed in section E.6.2 of the PoA-DD?</p> <p><i>Only those parameters which can be determined at the stage of PoA validation and will be applied consistently for each CPA shall be included in section E.6.2 of the PoA-DD. Ex-ante estimation of monitoring parameters or parameters to be reported only at CPA inclusion stage shall not be included.</i></p>	<p><i>Description:</i> The ex-ante fixed parameters have been listed in section E.6.2 as per the AMS-III.R. and AMS-I.I. as well as AMS-III.D.</p> <p><i>Justification of evidence:</i> The section E6.2 of PoA-DD has been checked against AMS-III.R., AMS-I.I. and AMS-III.D.</p> <p><i>Conclusion:</i> The checkpoint is fulfilled.</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III.R/ /AMS.III.D/</p>	OK	OK
<p>E.6.2.3. Have conservative assumptions been used when calculating the baseline emissions,</p>	<p><i>Description:</i> Some assumptions are not clearly defined.</p> <p><i>Justification of evidence:</i> The section E6.2 of PoA-DD has been</p>	<p>/PoA-DD/ /PoAR/</p>	CAR PoA- E7	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
project emissions and leakage? (EB 55 Annex 1 §§ 90, 91) <i>Describe clearly the steps taken to assess whether all the assumptions and data used by the PP are listed in the PDD including references and sources and are conservatively interpreted in the PoA-DD.</i>	checked against AMS-III.R., AMS-I.I. and AMS-III.D. as well as the tier 2 approach. <i>Conclusion:</i> The CAR PoA-E7 is raised.	/AMS.I.I/ /AMS.III. R/ /AMS.III. D/ /Tier2/		
E.6.3. Data and parameters have to be reported in the CPA-DD form				
E.6.3.1. Have all data and parameters which remain fixed throughout the crediting period correct, applicable to the project and will lead to a conservative estimation of emission reductions? <i>Describe clearly the steps taken to assess whether the values used for the fixed parameters are considered reasonable, correct and applicable in the context of the project activity.</i>	<i>Description:</i> <input type="checkbox"/> All "Values of data to be applied for the purpose of calculating expected emissions reductions" are considered to be reasonable, applicable and conservative. <input checked="" type="checkbox"/> The following mistakes have been identified in this context: <i>Justification of evidence:</i> The section E6.3 of PoA-DD has been checked against AMS-III.R., AMS-I.I. and AMS-III.D. as well as the tier 2 approach. <i>Conclusion:</i> The CAR PoA-E7 is raised.	/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/ /AMS.III. D/ /Tier2/	CAR PoA- E7	OK
E.7. Application of the monitoring methodology and description of the monitoring plan				
E.7.1. Data and parameters to be				

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
monitored by each CPA				
<p>E.7.1.1. Are the means of monitoring of all parameters contained in the monitoring plan feasible and in accordance with the requirements of the applied methodology?</p> <p>(EB 55 Annex 1, § 123 (a), 123 (b), 124)</p> <p>Assess whether the provided information for all parameters w.r.t.</p> <ul style="list-style-type: none"> a) label (name of the data / parameter) b) data unit c) description d) source of data e) value applied for ex-ante ER calculation f) measurement equipment / method / procedure g) QA/QC procedures h) Any comment if necessary <p>are appropriately described and in compliance with the requirements of the methodology.</p>	<p><i>Description:</i> The means of monitoring of all parameters are contained in the monitoring plan, in term of the label, data unit, description, source of data, measurement equipment, monitoring frequency, QA/QC procedures. But, some information is not correct.</p> <p><i>Justification of evidence:</i> The section E7.1 of PoA-DD has been checked against AMS-III.R., AMS-I.I. and AMS-III.D. as well as the tier 2 approach.</p> <p><i>Conclusion:</i> CAR PoA-E8 is raised.</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I/ /AMS.III. R/ /AMS.III. D/ /Tier2/</p>	CAR PoA- E8	OK
<p>E.7.1.2. Are all monitoring parameters as required by the applied methodology contained in the monitoring plan?</p> <p>(EB 51 Annex 1, §§ 67 (e), 122, 123 (a) , 124)</p>	<p><i>Description:</i> Not all monitoring parameters as required by the applied methodologies were listed in the monitoring plan.</p> <p><i>Justification of evidence:</i> The section E7.1 of PoA-DD has been checked against AMS-III.R., AMS-I.I. and AMS-III.D. as well as the tier 2 approach.</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I/</p>	CAR PoA- E8	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p><i>Assess whether all applicable parameters listed in the methodology are included in the monitoring plan.</i></p> <p><i>Pl. check further whether the selection of parameters not to be monitored is appropriate and in line with the applied methodology.</i></p> <p><i>In case of different approaches can be chosen acc. to the methodology assess whether the selection of parameters is justified and correct.</i></p>	<p><i>Conclusion:</i> CAR PoA-E8 is raised.</p>	<p>/AMS.III. R/ /AMS.III. D/ /Tier2/</p>		
<p>E.7.1.3. Does the PoA-DD mention reasonable values for all ex-ante calculation / monitoring parameters?</p> <p><i>Describe clearly the steps taken to assess whether the values used for the monitoring parameters are considered reasonable, applicable and conservative in the context of the project activity</i></p>	<p><i>Description:</i> Only the monitoring parameter of $n_{k,y}$ has a ex-ante estimate of 100%, but, the validation team considered that 100% is not reasonable and conservative.</p> <p><i>Justification of evidence:</i> The section E7.1 of PoA-DD has been checked against AMS-III.R., AMS-I.I. and AMS-III.D. as well as the tier 2 approach.</p> <p><i>Conclusion:</i> The CAR PoA-E8 is raised.</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III. R/ /AMS.III. D/ /Tier2/</p>	<p>CAR PoA- E8</p>	<p>OK</p>
<p>E.7.2. Description of the monitoring plan for a SSC-CPA</p>				
<p>E.7.2.1. Has a monitoring plan for a CPA been developed in accordance with the approved monitoring methodology, and identified the monitoring provisions and data parameters a CPA has to apply/monitor?</p>	<p><i>Description:</i> Some parts of the monitoring plan are not developed as the approved methodologies. The monitoring parameters listed in section E.7.2 are not complete.</p> <p><i>Justification of evidence:</i> The section E7.2 of PoA-DD has been checked against AMS-III.R., AMS-I.I. and AMS-III.D. as well as the</p>	<p>/PoA-DD/ /PoAR/ /AMS.I.I./ /AMS.III.</p>	<p>CAR PoA- E9</p>	<p>OK</p>

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
(EB 55 Annex 38, §6(j))	tier 2 approach. <i>Conclusion:</i> The CAR PoA-E9 is raised.	R/ /AMS.III. D/ /Tier2/		
E.7.2.2. Are the QA/QC procedures appropriate sufficient to ensure the emission reductions achieved from the project activity can be reported ex-post and verified? (EB 55 Annex 1 124 (b)) <i>Please consider the description given in section B.7.2. Describe which QA/QC provisions are considered. Address Quality Management System provisions, calibration and maintenance of equipment. Address further any review procedures.</i>	<i>Description:</i> There is not QA/QC procedures in the PoA-DD. <i>Justification of evidence:</i> The section E7.2 of PoA-DD has been checked. <i>Conclusion:</i> The CAR PoA-E9 is raised.	/PoA-DD/ /PoAR/	CAR PoA- E9	OK
E.7.2.3. Have all means of implementing the monitoring plan, e.g. procedures for data management, emergency preparedness, been described clearly and in line with the methodology? (EB 55 Annex 1 123 (b), 124) <i>Check whether all necessary equations have been provided in the PoA-DD. Pl. consider that ex-post and ex-ante calculations might be different.</i> <i>Please consider that additional equations might be necessary to calculate auxiliary parameters.</i>	<i>Description:</i> The means of implementing the monitoring plan is not complete. <i>Justification of evidence:</i> The section E7.2 of PoA-DD has been checked. <i>Conclusion:</i> The CAR PoA-E9 is raised.	/PoA-DD/ /PoAR/	CAR PoA- E9	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
Assess whether the described monitoring arrangements are sufficient and realistic to enable a thorough monitoring. Pl. consider also special monitoring conditions, e.g. downtimes of monitoring equipment etc				
E.8. Date of completion of the application of the baseline study and monitoring methodology and the name of the responsible person(s)/ entity(ies)				
E.8.1. Have the dates of the completion of the application of the baseline study and monitoring methodology and the name of the responsible person(s)/ entity(ies) appropriately mentioned?	<p><i>Description:</i> Yes. The date of completion and the name of the responsible person are listed.</p> <p><i>Justification of evidence:</i> The section E.8 of PoA-DD has been checked.</p> <p><i>Conclusion:</i> The checkpoint is fulfilled.</p>	/PoA-DD/ /PoAR/	Ok	OK
Annexes				
<p>An.1. Has contact information on CME and Participants in the PoA been sufficiently and appropriately included in Annex 1 of the PoA-DD and consistent with section A.3?</p> <p>(EB 55 Annex 1, § 52)</p> <p><i>Each organisation listed in section A.3 shall include the following mandatory fields: Organization, Name of contact person, Street, City, Postfix/ZIP, Country, Telephone and Fax or e-mail.</i></p>	<p><i>Description:</i> The contact information in Annex 1 is correct and consistent with the section A.3 of PoA-DD.</p> <p><i>Justification of evidence:</i> The Annex 1 and section A.3 of PoA-DD have been checked.</p> <p><i>Conclusion:</i> The checkpoint is fulfilled.</p>	/PoA-DD/ /PoAR/	OK	OK
An.2. Has any important Public Funding	<i>Description:</i> There is no Public Funding for this PoA as indicated in	/PoA-DD/	OK	OK

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.
<p>information been included in Annex 2 of the PoA-DD and consistent with section A.4.5?</p> <p>(EB 55 Annex 38, §6(n))</p> <p><i>Assess information from Parties included in Annex I on sources of public funding for the project activity which shall provide an affirmation that such funding does not result in a diversion of official development assistance and is separate from and is not counted towards the financial obligations of those Parties.</i></p>	<p>Annex 2 of PoA-DD, which is consistent with the section A.4.5 of PoA-DD.</p> <p><i>Justification of evidence:</i> The Annex 2 and section A.4.5 of PoA-DD have been checked.</p> <p><i>Conclusion:</i> The checkpoint is fulfilled.</p>	/PoAR/		
<p>An.3. Has any important Baseline information necessary to be included in Annex 3 of the PoA-DD and consistent with section E.4?</p> <p>(EB 55 Annex 1, §§ 67 (b), 82, §§ 104 – 106)</p> <p><i>Assess any further background information used in the application of the baseline methodology. This may include tables with time series data, documentation of measurement results and data sources, etc.</i></p>	<p><i>Description:</i> There is no additional baseline information for this PoA as indicated in Annex 3 of PoA-DD, which is consistent with the section E.4 of PoA-DD.</p> <p><i>Justification of evidence:</i> The Annex 3 and section E.4 of PoA-DD have been checked.</p> <p><i>Conclusion:</i> The checkpoint is fulfilled.</p>	/PoA-DD/ /PoAR/	OK	OK
<p>An.4. Has any important Monitoring information necessary to be included in Annex 4 of the PoA-DD and consistent with section A.4.4 and E.7?</p> <p>(EB 55 Annex 38, §6(j); EB 55 Annex 1 123 (b), 124)</p> <p><i>Assess any further background information used in the application of the monitoring methodology. This may include tables with time series data, additional documentation of measurement equipment, procedures, etc.</i></p>	<p><i>Description:</i> There is no important monitoring information necessary to be included in Annex 4 of PoA-DD, which is consistent with the section A.4.4 and E.7 of PoA-DD.</p> <p><i>Justification of evidence:</i> The Annex 4, section A.4.4 and E.7 of PoA-DD have been checked.</p> <p><i>Conclusion:</i> The checkpoint is fulfilled.</p>	/PoA-DD/ /PoAR/	OK	OK

Table A-1-2: Generic CPA-DD Requirements Checklist

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)	Ref.	Draft Concl.	Final Concl.																												
Consistency and specific CPA issues	<i>This Checklist shall be filled by comparing the draft version of generic CPA-DD published for GSCP with the finalized PoA-DD.</i>																															
1. Has the latest version of the CDM-SSC-CPA-DD form been applied? (EB 55 Annex 1 § 55)	<i>Description:</i> The latest version 01 of CDM-SSC-CPA-DD has been used. <i>Justification of evidence:</i> By means of checking the CPA-DD and unfccc website. <i>Conclusion:</i> The latest version 01 is properly used.	/CPA-DD-G/ /PoA-DDs-T/ /unfccc/	OK	OK																												
2. Are all necessary information consistent between the finalized POA-DD and the Generic CPA-DD?(EB 55 Annex 38 §12(d))	<i>Description:</i> Not all sections are consistent with the finalized PoA-DD, especially information between the following sections: <table><tr><th>Generic CPA-DD</th><th>Finalized PoA-DD</th></tr><tr><td>A.1.</td><td>A.1</td></tr><tr><td>A.2.</td><td>A.2. and A.4.2.1.</td></tr><tr><td>A.3.</td><td>A.3.</td></tr><tr><td>A.4.1.1.</td><td>A.4.1.1.</td></tr><tr><td>A.4.1.2.</td><td>A.4.1.2.</td></tr><tr><td>A.4.2.1.</td><td>*Not prior to GSP of PoA-DD</td></tr><tr><td>A.4.2.2.</td><td>-</td></tr><tr><td>A.4.3.1.</td><td>B.1.</td></tr><tr><td>A.4.3.2.</td><td>B.2.</td></tr><tr><td>A.4.4.</td><td>-</td></tr><tr><td>A.4.5.</td><td>A.4.5.</td></tr><tr><td>A.4.6.</td><td>A.4.4. and A.4.4.1.</td></tr><tr><td>A.4.7.</td><td></td></tr></table>	Generic CPA-DD	Finalized PoA-DD	A.1.	A.1	A.2.	A.2. and A.4.2.1.	A.3.	A.3.	A.4.1.1.	A.4.1.1.	A.4.1.2.	A.4.1.2.	A.4.2.1.	*Not prior to GSP of PoA-DD	A.4.2.2.	-	A.4.3.1.	B.1.	A.4.3.2.	B.2.	A.4.4.	-	A.4.5.	A.4.5.	A.4.6.	A.4.4. and A.4.4.1.	A.4.7.		/PoA-DD/ /CPA-DD-G/ /PoA-DDs-T/	CAR gCPA-4	OK
Generic CPA-DD	Finalized PoA-DD																															
A.1.	A.1																															
A.2.	A.2. and A.4.2.1.																															
A.3.	A.3.																															
A.4.1.1.	A.4.1.1.																															
A.4.1.2.	A.4.1.2.																															
A.4.2.1.	*Not prior to GSP of PoA-DD																															
A.4.2.2.	-																															
A.4.3.1.	B.1.																															
A.4.3.2.	B.2.																															
A.4.4.	-																															
A.4.5.	A.4.5.																															
A.4.6.	A.4.4. and A.4.4.1.																															
A.4.7.																																

Checklist Item (incl. guidance for the validation team)	Validation Team Comments (justification and substantiation of information, data and evidence)		Ref.	Draft Concl.	Final Concl.																										
	<table><tr><td>B.1.</td><td>A.1</td></tr><tr><td>B.2.</td><td>A.4.2.2.</td></tr><tr><td>B.3.</td><td>A.4.3. , E.5. , E.5.1. and E.5.2.</td></tr><tr><td>B.4.</td><td>E.3.</td></tr><tr><td>B.5.</td><td>E.6.</td></tr><tr><td>B.5.1.</td><td>E.6.3.</td></tr><tr><td>B.5.2.</td><td>E.6.1. and E.6.2.</td></tr><tr><td>B.5.3.</td><td>-</td></tr><tr><td>B.6.</td><td>E.1.and E.2.</td></tr><tr><td>B.6.1.</td><td>E.7. , E.7.1., E.7.2. and A.4.4.2.</td></tr><tr><td>C.1. to C.3</td><td>C.1. to C.3</td></tr><tr><td>D.1. to D.4.</td><td>D.1 to D.4.</td></tr><tr><td>Annex 1 to Annex 4</td><td>Annex 1 to Annex 4</td></tr></table> <p><i>Justification of evidence:</i> By means of comparing the <i>draft version of generic CPA-DD published for GSCP with the finalized PoA-DD.</i></p> <p><i>Conclusion:</i> CAR gCPA-1 was raised.</p>		B.1.	A.1	B.2.	A.4.2.2.	B.3.	A.4.3. , E.5. , E.5.1. and E.5.2.	B.4.	E.3.	B.5.	E.6.	B.5.1.	E.6.3.	B.5.2.	E.6.1. and E.6.2.	B.5.3.	-	B.6.	E.1.and E.2.	B.6.1.	E.7. , E.7.1., E.7.2. and A.4.4.2.	C.1. to C.3	C.1. to C.3	D.1. to D.4.	D.1 to D.4.	Annex 1 to Annex 4	Annex 1 to Annex 4			
B.1.	A.1																														
B.2.	A.4.2.2.																														
B.3.	A.4.3. , E.5. , E.5.1. and E.5.2.																														
B.4.	E.3.																														
B.5.	E.6.																														
B.5.1.	E.6.3.																														
B.5.2.	E.6.1. and E.6.2.																														
B.5.3.	-																														
B.6.	E.1.and E.2.																														
B.6.1.	E.7. , E.7.1., E.7.2. and A.4.4.2.																														
C.1. to C.3	C.1. to C.3																														
D.1. to D.4.	D.1 to D.4.																														
Annex 1 to Annex 4	Annex 1 to Annex 4																														
3. Does the generic CDM-CPA-DD include Name/contact details of the entity/individual responsible for the operation of the CPA? (EB 55 Annex 38 §7(a))	<p><i>Description:</i> The responsible person and contact details of the entity responsible for operation of the CPA has been included in Annex 1 of the generic CPA-DD.</p> <p><i>Justification of evidence:</i> By means of generic CDM-CPA-DD, Annex 1 and onsite interviews.</p> <p><i>Conclusion:</i> No issues were raised.</p>		/CPA-DD-G/ /IM01/ /IM02/	OK	OK																										

ANNEX 2: ASSESSMENT OF BASELINE IDENTIFICATION

Table A-2: Assessment of Baseline Identification

<input type="checkbox"/>	Baseline is not identified
<input checked="" type="checkbox"/>	Assessment of baseline see below

PP Demonstration					DOE Assessment	
Baseline Alternatives identified	In line with the Methodology	Eliminated	Reasons for elimination / non-elimination from list of alternatives	Evidence used	Evidence appropriate	Assessment of validation team (results and means of assessment)
type I component: The baseline is the fuel consumption of the thermal application used or that would have been used in the absence of the project. The households/small farms would have used coal as main sources of energy for cooking.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The baseline scenario was defined in AMS-I.I.	/PoA-DD/ /AMS.I.I/ /PoAR/ /VVM/ /IM01/ /IM02/	<input checked="" type="checkbox"/>	The baseline scenario was defined in AMS-I.I. The validation team verified the methodology, PoA related requirements, local regulation and other documents, interviewed the project owner and local officers and checked the real situation onsite. Based on this it is concluded that the baseline scenario is applicable.
type III component: The baseline scenario is the situation where, in the absence of the project activity, biomass and other organic matter are left to decay anaerobically within the project boundary and methane is emitted to the atmosphere. The manure would have been anaerobically stored in pit storage.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The baseline scenario was defined in AMS-III.R.	/PoA-DD/ /AMS.III.R/ /PoAR/ /VVM/ /IM01/ /IM02/	<input checked="" type="checkbox"/>	The baseline scenario was defined in AMS-III.R. . The validation team verified the methodology, PoA related requirements, local regulation and other documents, interviewed the project owner and local officers and checked the real situation onsite. Based on this it is concluded that the baseline scenario is applicable.

ANNEX 3: ASSESSMENT OF FINANCIAL PARAMETERS

Table A-3: Assessment of Financial parameters

<input checked="" type="checkbox"/>	No financial parameters are used for additionality justification
<input type="checkbox"/>	Assessment of all financial parameters see below

PP Demonstration					DOE Assessment		
Parameter	Value applied	Unit	Source of Information (please indicate document and page)	Reference	values applied are correct	Evidence used are appropriate	Comment
					<input type="checkbox"/>	<input type="checkbox"/>	

ANNEX 4: ASSESSMENT OF BARRIER ANALYSIS

Table A-4: Assessment of Barrier Analysis

<input checked="" type="checkbox"/>	No barrier parameters are used for additionality justification
<input type="checkbox"/>	Assessment of barriers see below

PP Demonstration			DOE Assessment	
Kind of Barrier (invest, tech, other)	Description of Barrier	Evidence used	Appropriate	Explanation of final result
			<input type="checkbox"/>	

ANNEX 5: OUTCOME OF THE GSCP

Table A-5: Outcome of the Global Stakeholder Consultation Process

(§§ 41, 42 VVM Version 1.2)

<input checked="" type="checkbox"/>	No comments were received during the global stakeholder consultation period ^{/GSP/}
<input type="checkbox"/>	Comments were received during the global stakeholder consultation period. The comments (in unedited form) and the consideration/response of the validation team are presented below:

Comment No.:	Comment by:	Inserted on:	Subject	Comment ^{*)}	Action taken by the validation team to take due account on the comment ^{*)}	Conclusion (incl. CARs CLs or FARs)

^{*)} In case clarifications have been requested by the validation team corresponding rows shall be added

ANNEX 6: ELIGIBILITY CRITERIA ASSESSMENT

Table A-6: Assessment on Eligibility Criteria for inclusion of CPAs under this PoA

A full list shall be included in section A.4.2.2 of the PoA-DD and B.2 of the generic CPA-DD. (EB 65 Annex 3 §14)

<input type="checkbox"/>	Eligibility Criteria for inclusions of CPAs under this PoA has not been sufficiently described
<input checked="" type="checkbox"/>	Eligibility Criteria for inclusions of CPAs under this PoA has been sufficiently described as follows

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
Geographical boundary	1. All the project activities under the CPA should be located in the boundary of the PoA, i.e. within Gansu Province;	The verification statement on all households/small farms of the real case CPA issued by Gansu Province Rural Energy Office including the householder's name and households' address	<input checked="" type="checkbox"/>	This criterion corresponds with paragraph 14 (a) EB65 Annex 3. The location of each CPA will be clearly defined within Gansu Province, P.R. China. The expected evidence at CPA inclusion stage is deemed appropriate. The expected verification statement on all households/small farms of the real case CPA will be issued by the reliable government of Gansu Province Rural Energy Office, including the householder's name and households' address. This expected verification statement is sufficient to demonstrate each household of the real-case CPA is located in the PoA boundary. Therefore the EC is deemed sufficient and appropriate.

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
To avoid double counting	<p>2. First, the implementers of the project activities under the CPA should confirm in a written statement to the CME that:</p> <p>a) The project activities under the CPA are not and will not be part of another CDM project or programme activity; and</p> <p>b) The implementer of the project activities under the CPA is aware and agrees with the inclusion of the CPA to the proposed PoA.</p> <p>Second, all the project activities under the CPA should be registered and recorded in the database controlled by the CME. The CME should make sure that each project activity (household/small farm) has its unique registration information to avoid to be double counted within the PoA.</p>	<p>confirmations by households/small farms</p> <p>database established and controlled by the CME</p> <p>The verification statement on all households/small farms of the real case CPA issued by Gansu Province Rural Energy Office including the householder's name and households' address</p>	<input checked="" type="checkbox"/>	<p>This criterion corresponds with paragraph 14 (b) EB65 Annex 3 and is deemed appropriate and sufficient to avoid double counting of emission reductions for a CPA inclusion.</p> <p>The expected evidence are as follows:</p> <ul style="list-style-type: none"> ➤ Written confirmations by all households/small farms will be provided to confirm that the household/small farm is not and will not be part of another CDM project or programme activity and that they are aware of and agree with the inclusion of the CPA to the proposed PoA. ➤ The database established and controlled by the CME. In the database, each household/small farm has its unique registration information. ➤ A Verification statement on all households/small farms will be provided by the reliable government of Gansu Province Rural Energy Office, including the householder's name and households' address. <p>The expected evidence at CPA inclusion stage is deemed appropriate. Therefore the EC is deemed sufficient and appropriate.</p>
The	3. Under the CPA, project activities	Project approval by the	<input checked="" type="checkbox"/>	This criterion corresponds with paragraph 14 (c)

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
specifications of technology/measure	will install biogas digesters and their auxiliary facilities to treat manure and collect biogas which will be used in the cooking stove and the lighting (the lighting is not installed for all CPAs)	<p>Gansu Development and Reform Commission and the Gansu Department of Agriculture and Animal Husbandry.</p> <p>Agricultural Industry standard of China for biogas digester: NY/T 1639-2008^{/Standr/}.</p> <p>National Standard of China (GB/T 3606-2001) for biogas stove^{/Standr/}.</p> <p>Agricultural Industry Standard of China (NY/T 344-1998) for biogas lighting^{/Standr/}.</p>		<p>EB65 Annex 3. The specifications of technology/measure including the level and type of service are clearly stated. Applicability criterion 1 of AMS-III.R as well as applicability criterion 1 of AMS-I.I is also met.</p> <p>The project approval by the Gansu Development and Reform Commission will be provided. The technical specification will be in line with the applicable Chinese Standards.</p> <ul style="list-style-type: none"> ➤ Chinese agricultural Industry standard: NY/T 1639-2008 issued by Ministry of Agriculture of China: Technology criterion on rural biogas digester and three innovations on 2008-05-16 and was effective from 2008-07-01 onwards^{/Standr/}. ➤ National Standard of China: GB/T 3606-2001 issued by General Administration of Quality Supervision, Inspection and Quarantine of China: Domestic biogas stove on 2001-11-12 and was effective from 2002-03-01 onwards^{/Standr/}. ➤ Chinese Agricultural Industry Standard: NY/T 344-1998 issued by Ministry of Agriculture of China: Household Biogas Lighting on 1998-06-01 and was effective from 1999-01-01 onwards^{/Standr/}.

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
				Therefore the EC is deemed sufficient and appropriate.
The start date of the CPA	4. The start date of the CPA, which is the earliest date among equipment purchase date and construction start date, is later than the PoA GSP start date of 14/09/2011.	Equipment purchase contract Construction contract or construction start record	<input checked="" type="checkbox"/>	<p>This criterion corresponds to paragraph 14(d) EB65 Annex 3. In line with EB 55 Annex 38 §7 (d) the CPA starting date cannot be prior to commencement of validation. The POA-DD has been made publicly available on 2011-09-14. The start date of the CPA is defined as the earliest commitment to the financial expenditure of the CPA and it will be later than the PoA for GSCP start date.</p> <p>The expected evidence are as follows:</p> <ul style="list-style-type: none"> ➤ Equipment purchase contract of the CPA. ➤ Construction contract of the CPA <p>Thus, the expected evidence is deemed sufficient to demonstrate the fulfilment of this eligibility criterion. Therefore the EC is deemed sufficient and appropriate.</p>
The applicability and other requirements of applied methodologies	5. Combination of AMS-III.R and AMS-I.I is applied in the CPA under the PoA.	1) CPA-DD	<input checked="" type="checkbox"/>	<p>This criterion corresponds to paragraph 28, EB65 Annex 3.</p> <p>There are no cross effects between the applied methodologies as they apply the same technology/measure. Furthermore as per paragraph 11 (a) EB 61 Annex 21 each SSC type III methodology can be combined with any SSC type I methodology.</p>

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
				Furthermore the compliance with the applicability and other requirements of the multiple methodologies applied by the CPA is given. The applicability criterion of AMS-III.R (Ver.03) and AMS-I.I (Ver.04) will be checked in detail by each CPA, as part of EC 6 - 16. Therefore the EC is deemed sufficient and appropriate.
	6. In the baseline scenario, animal manure and wastes are stored under anaerobic conditions in pit storage;	CDM file card 1 ^{/TCFC/} random onsite survey by the CME	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(e) EB65 Annex 3 and the requisition of AMS-III.R “ <i>The baseline scenario is the situation where, in the absence of the project activity, biomass and other organic matter are left to decay anaerobically within the project boundary and methane is emitted to the atmosphere.</i> ” The CDM file card ^{/TCFC/} is signed by the household. It includes the information regarding the management practice of animal manure and recovery of biogas prior to the implementation of the CPA. The template of CDM baseline information card ^{/TCFC/} has been validated by the validation team and deemed sufficient to check this information. CME’s random onsite survey is used to cross-check the information in the CDM baseline information card

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
				<p>/CFC/</p> <p>Therefore the EC is deemed sufficient and appropriate..</p>
	7. In the baseline scenario, no biogas was recovered or destroyed; all biogas was released into air freely;	CDM file card 1 ^{/TCFC/} random onsite survey by the CME	<input checked="" type="checkbox"/>	<p>This criterion corresponds to paragraph 14(e) EB65 Annex 3 and the requisition of AMS-III.R “<i>The baseline scenario is the situation where, in the absence of the project activity, biomass and other organic matter are left to decay anaerobically within the project boundary and methane is emitted to the atmosphere.</i>”</p> <p>The CDM file card ^{/TCFC/} is signed by the household. It includes the information regarding the management practice of animal manure and recovery of biogas prior to the implementation of the CPA. The template of CDM baseline information card ^{/TCFC/} has been validated by the validation team and deemed sufficient to check this information. CME’s random onsite survey is used to cross-check the information in the CDM baseline information card ^{/CFC/}.</p> <p>Therefore the EC is deemed sufficient and appropriate..</p>
	8. Prior to the implementation of the CPA, the households use coal (including coal briquette) as main sources of energy for	CDM file card 1 ^{/TCFC/} random onsite survey by the CME	<input checked="" type="checkbox"/>	<p>This criterion corresponds to paragraph 14(e) EB65 Annex 3 and the requisition of AMS-I.I “<i>The baseline is the fuel consumption of the thermal application used or that would have been used in the absence of</i></p>

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
	cooking.			<p>the project activity times an emission factor for the fossil fuel displaced.”</p> <p>The CDM file card ^{/TCFC/} signed by each household includes the information regarding the type and quantity of the coal used by the household prior to the implementation of the CPA. The template of CDM Baseline information card ^{/CFC/} has been validated by the validation team and deemed sufficient to check this information.</p> <p>CME's random onsite survey is used to cross-check the information in the CDM file card.</p> <p>Therefore the EC is deemed sufficient and appropriate.</p>
	9. After the proposed project, all sludge generated by biogas system will be treated under aerobic conditions;	CDM file card 2 random onsite survey by the CME	<input checked="" type="checkbox"/>	<p>This criterion corresponds to paragraph 14(e) EB65 Annex 3 and the requisition of AMS-III.R.</p> <p>The CDM file card 2^{/TCFC/} signed by each household includes the information regarding the treatment manner of sludge produced by the biogas digester after the implementation of the CPA. The template of CDM file card 2^{/TCFC/} has been validated by the validation team and deemed sufficient to check this information.</p>

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
				CME's random onsite survey is used to cross-check the information in the CDM file card 2. Therefore the EC is deemed sufficient and appropriate.
	10. After the proposed project, all biogas generated will be utilized;	CDM file card 2 random onsite survey by the CME	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(e) EB65 Annex 3. The expected evidence of CDM file card ^{/CFC/} is signed by each household. It includes information regarding the utilization of the biogas produced by the biogas digester after the implementation of the CPA. The template of CDM file card ^{/CFC/} has been validated by the validation team and deemed sufficient to check this information. CME's random onsite survey is used to cross-check the information in the CDM file card. Therefore the EC is deemed sufficient and appropriate.
	11. The total thermal generation capacity shall not exceed 45MW _{th} .	Project approval by the Gansu Development and Reform Commission and the Gansu Rural Energy Office. Households list issued by Gansu Rural Energy Office Calculation and record in the database by the CME	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(e) EB65 Annex 3 and the requisition of AMS-I.I "The total installed/rated thermal energy generation capacity of the project equipment is equal to or less than 45 MW thermal." Therefore, the proposed CPA is eligible to apply the SSC methodology as part of the small scale POA. The household list and the and the installed unit-

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
		Name brand of biogas stove or equipment purchasing contract		capacities will be recorded by the CME and checked against the project approval. Therefore the EC is deemed sufficient and appropriate.
	12. The emission reductions from type III component of the CPA is no more than 60 ktCO _{2e} per year.	Project approval by the Gansu Development and Reform Commission and the Gansu Rural Energy Office. Households list issued by Gansu Rural Energy Office Calculation and record in the database by the CME Name brand of biogas stove or equipment purchasing contract	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(e) EB65 Annex 3 and the requisition of AMS-III.R “ <i>Aggregated annual emission reductions of all systems included shall be less than or equal to 60 kt CO₂equivalent.</i> ” Therefore, the proposed CPA is eligible to apply the SSC methodology as part of the small scale POA. The ER sheet will be available for each CPA during inclusion stage. Therefore the EC is deemed sufficient and appropriate.
	13. The thermal installed capacity of each unit is no larger than 150 kW _{th} .	Project approval by the Gansu Development and Reform Commission and the Gansu Rural Energy Office. Households list issued by Gansu Rural Energy Office Calculation and record in the database by the CME Name brand of biogas stove or equipment	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(e) EB65 Annex 3 and the requisition of AMS-I.I. In line with EB 54 Annex 13, the CPA is exempted from performing a de-bundling check, as a CPA of the PoA is no larger than 1% of the small-scale thresholds defined by the methodologies applied. The purchasing contract and the project approval will give the technical specification of the installed equipment. Therefore the EC is deemed sufficient and appropriate.


PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
		purchasing contract		
	14. The emission reductions from methane recovery of each unit are no more than 5 tCO _{2e} per year.	Project approval by the Gansu Development and Reform Commission and the Gansu Rural Energy Office. Households list issued by Gansu Rural Energy Office Calculation and record in the database by the CME Name brand of biogas stove or equipment purchasing contract		This criterion corresponds to paragraph 14(e) EB65 Annex 3 and the requisition of AMS-III.R. In line with EB 54 Annex 13, the CPA is exempted from performing a de-bundling check, as a CPA of the PoA is no larger than 1% of the small-scale thresholds defined by the methodologies applied. The purchasing contract and the project approval will give the technical specification of the installed equipment. The ER sheet will be also available for each CPA during inclusion stage. Therefore the EC is deemed sufficient and appropriate.
Target group	15. Under the CPA, project implementers are rural households or small farms;.	Project approval by the Gansu Development and Reform Commission and the Gansu Rural Energy Office	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(i) EB65 Annex 3. The target group is clearly defined in line with the applied methodologies AMS-III.R and AMS-I.I. The project approval will show that the target group is households only. Therefore the EC is deemed sufficient and appropriate.
	16. The end users of all CPAs under the proposed PoA are rural	Project approval by the Gansu Development and Reform Commission and	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(f) EB65 Annex 3 and in line with EB 68 Annex 27 project activity types that are defined as automatically

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
	households	the Gansu Rural Energy Office		additional are “ <i>Project activities solely composed of isolated units where the users of the technology/measure are households or communities or Small and Medium Enterprises (SMEs) and where the size of each unit is no larger than 5% of the small-scale CDM thresholds</i> ”. As per EC 13 and EC 14 each unit is already under the 5% small-scale CDM threshold. An approval will be issued by the government authority which indicates that the project aims at households.
Funding from Annex I parties	17. The project activities under the CPAs are not sponsored by any funding from Annex I parties.	Project approval by the Gansu Development and Reform Commission and the Gansu Rural Energy Office Statement by CME.	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(h) EB65 Annex 3. And it is also in line with EB55 Annex 38 §6(n), which says that a diversion of official development assistance is a violation of UNFCCC guidelines. The Project approval by the Gansu Development and Reform Commission and a statement by the CME will provided, including that no official development assistance is involved. Therefore the EC is deemed sufficient and appropriate.
Sampling	18. Each CPA will be monitored and verified. The sampling approach	Sampling plan included in the CPA, which is	<input checked="" type="checkbox"/>	This criterion corresponds to paragraph 14(j) EB65 Annex 3, EB 65 Annex 2 and the monitoring

PP Demonstration			DOE Assessment	
Category	Eligibility Criteria	Minimum Expected Evidence(s) to be provided during CPA inclusion	Appropriate and sufficient	Explanation of final result
	is only used to estimate the value of the monitoring parameter, and the sampling approach will be applied to all the CPAs included in the PoA.	completed in accordance with 'Standard for sampling and surveys for CDM project activities and programme of activities (version 02.0, EB 65 Annex 2)'		requisition of AMS-III.R (Ver.02) and AMS-I.I (Ver.04). A Sampling plan is already included in each CPA. It fulfils the "Standard for sampling and surveys for CDM project activities and programme of activities. "EB 65 Annex 2 Therefore the EC is deemed sufficient and appropriate.
Others	19. The CPA crediting period does not exceed 31/12/2040 (the PoA end date).	CPA-DD		This criterion corresponds to paragraph 7(c) EB55 Annex 38. The crediting period must not extend beyond the end date of the Programme of Activities (PoA) to which it belongs. The information will be included in the CPA-DD and checked against the duration of the PoA. The EC is deemed sufficient and appropriate.

^{*)} In case clarifications have been requested by the validation team corresponding rows shall be added

ANNEX 7: APPOINTMENT CERTIFICATES OF TEAM MEMBERS


Statement of Competence
Appointment and authorization according to the procedures
of the TÜV NORD JI/CDM Certification Program

Mr. Yongjun Li


SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2013-06-26
VCS / ISO 14064-2	Senior Assessor (Validation, Verification) Technical Reviewer	2013-06-26

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR SUBCATEGORIES
1.2	Renewable Energies	1.2.1 Hydro 1.2.2 Wind 1.2.3 Geothermal 1.2.4 Solar 1.2.5 Tidal
13.1	Waste Handling and Disposal	

039 – Rev. 1, Date: 2012-09-11

039_001-F003_2012-09-11_mvf.doc 001-F003 rev2 / 2012-04-08


Statement of Competence
Appointment and authorization according to the procedures
of the TÜV NORD JI/CDM Certification Program

Mr. Ulrich Walter


SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification) Technical Reviewer	2014-12-08
Ji	Lead Assessor Technical Reviewer	2014-12-08
VCS / ISO 14064-2	Lead Assessor Technical Reviewer	2014-12-08

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR SUBCATEGORIES
1.1	Thermal Energy Generation	
1.2	Renewable Energies	
2.1	Electricity Distribution	
2.2	Heat Distribution	
3.1	Energy Demand	
5.1	Chemical Process Industries	
11.1	Chemical Process Industries	
12.1	Chemical Process Industries	
13.1	Waste Handling and Disposal	13.1.1 Waste Management 13.1.2 Waste Water Management
13.2	Animal Waste Management	
15.2	Animal Waste Management	

149 – Rev. 4, Date: 2012-02-27

149_001-F003_2012-02-27_mvf.doc 001-F003 rev2 / 2012-04-08


Statement of Competence
Appointment and authorization according to the procedures
of the TÜV NORD JI/CDM Certification Program

Mr. Tao Yan


SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification)	2014-09-26
VCS / ISO 14064-2	Lead Assessor	2014-09-26

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewable energies
13.1	Waste handling and disposal

131 – Rev. 3, Date: 2012-09-20

131_001-F003_2012-09-20_mvf.doc 001-F003 rev2 / 2012-04-08


Statement of Competence
Appointment and authorization according to the procedures
of the TÜV NORD JI/CDM Certification Program

Mr. Stefan Winter

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2014-09-30
VCS	Senior Assessor (Validation, Verification) Technical Reviewer	2014-09-30

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR SUBCATEGORIES
1.1	Thermal energy generation	1.2.1 Hydro 1.2.2 Wind 1.2.3 Geothermal 1.2.4 Solar 1.2.5 Tidal
1.2	Renewable Energy	
2.2	Heat distribution	
3.1	Energy demand	
13.1	Waste handling and disposal	13.1.1 Waste management 13.1.2 Waste water management
13.2	Animal waste management	
15.2	Animal waste management	

163 – Rev. 2, Date: 2011-08-10

163_001-F003_2011-08-10_mvf.doc 001-F003 rev1 / 2011-08-02



Statement of Competence
Appointment and authorization according to the procedures
of the TÜV NORD JI/CDM Certification Program

Ms. Christina Stöhr

SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification)	2014-12-12
VCS / ISO 14064-2	Lead Assessor	2014-12-12

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR SUBCATEGORIES
1.2	Renewable Energies	1.2.1 Hydro 1.2.2 Wind 1.2.3 Geothermal 1.2.4 Solar 1.2.5 Tidal

200 – Rev. 3, Date: 2012-07-05

000_301-F003_2012-07-05_rev3.doc

301-F003 rev2 / 2012-04-05

Statement of Competence
Appointment and authorization according to the procedures
of the TÜV NORD JI/CDM Certification Program

Mr. Dr. Jochen Schubert

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2014-05-11
VCS	Senior Assessor (Validation, Verification) Technical Reviewer	2014-05-11

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR INCLUDE SUB-AREAS
1.2	Renewable Energies	1.2.1 Hydro 1.2.2 Wind 1.2.3 Geothermal 1.2.4 Solar 1.2.5 Tidal
13.1	Waste handling and disposal	13.1.1 Waste management 13.1.2 Waste water management

056 – Rev. 2, Date: 2011-07-29

006_301-F003_2011-07-29_rev2

301-F003 rev1 / 2010-04-19