




Validation report form for post-registration changes for CDM programme of activities

(version 01.0)

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

VALIDATION REPORT ON POST-REGISTRATION CHANGES (PRCs)

Title and reference number of the programme of activities (PoA)	MicroEnergy Credits – Microfinance for Clean Energy Product Lines – Mongolia, UNFCCC ID: 8142.
Process track	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report on PoA PRCs	01
Completion date of the validation report on PoA PRCs	22/02/2017
Version number of PoA-DD and/or CPA-DD applicable to this validation report	2.2
Type(s) of PoA PRCs	<input checked="" type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan to a registered PoA <input type="checkbox"/> Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Types of changes specific to afforestation and reforestation activities <input type="checkbox"/> Changes to the programme design of a registered PoA <input type="checkbox"/> Changes to project design of generic component project activities or specific-case component project activities
Coordinating/managing entity (CME)	MicroEnergy Credits
Host Party(ies)	Mongolia
Sectoral scope(s)	Sectoral scope 3: Energy demand
Selected methodology(ies)	AMS-II.E. - Energy efficiency and fuel switching measures for buildings, version 10
Selected standardized baseline(s), where applicable	NA

Name of DOE	TÜV NORD CERT GmbH
Name, position and signature of the approver of the validation report on PoA PRCs	 Rainer Winter TÜV NORD CERT GmbH Head-JI/CDM Certification Program

SECTION A. Executive summary

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

Table A-1: Project Characteristics

Item	Data		
Project title	MicroEnergy Credits – Microfinance for Clean Energy Product Lines – Mongolia (POA-8142)		
Project type	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> PoA	
Project size	<input type="checkbox"/> Large Scale	<input checked="" type="checkbox"/> Small Scale	
Technical Area(s)	3.1: Energy Demand		
Location	CPA No.: 001	Project Location	
	Host Country	Mongolia	
	Province	Ulaanbaatar	
	City	Ulaanbaatar city	
	Focal point	Latitude	Longitude
	Ulaanbaatar	47.92°N	106.92°E
Crediting period	<input checked="" type="checkbox"/> Renewable Crediting Period (7 y) <input type="checkbox"/> Fixed Crediting Period (10 y)		

For a detailed project description please refer to the registered PoA-DD and/or the latest verification report (to which this report is attached).

SECTION B. Validation team, technical reviewer and approver

On the basis of competence analysis and individual availabilities an assessment team, consistent of one team leader, was 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 below.

B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader+ Technical Expert	IR	Mishra	Prakash Kumar	-	x	x	x	x

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Winter	Stefan	TÜV NORD CERT
2.	Approver	IR	Winter	Rainer	TÜV NORD CERT

SECTION C. Means of validation**C.1. Desk review**

The *assessment of post registration changes (temporary deviation type)* consisted of the following steps:

- Appointment of team members and technical reviewers
- A desk review of the registered PDD^{/PDD/} and additional supporting documents
- On-Site assessment (if required)
- Background investigation and follow-up interviews with personnel of the project developer and its contractors,
- Resolution of corrective actions (CARs / CLs) (if any)
- Final reporting
- Technical review
- Final approval.

In this case all activities were carried out as part of the 2nd verification of this project activity.

The registered/included CPA-DD and supporting background documents related to the project design and the post registration changes (temporary deviation) were reviewed.

As far as required, the assessment team used additional documentation by third parties like host party legislation, technical reports referring to the project design or to the basic conditions and technical data.

A list of all documents reviewed or referenced during this validation is presented in Appendix 3 below.

C.2. On-site inspection

Duration of on-site inspection: 03/10/2016 to 05/10/2016				
No.	Activity performed on-site	Site location	Date	Team member
1.	<ul style="list-style-type: none"> • Formal Introduction with CME, CPA implementer and other involved personnel in GHG data monitoring, discussion on audit planning, site lay out. • Record keeping. • Sales receipt verification • Double counting avoidance procedure • Interviews of the CME, PO and sales personnel • Master data verification 	Ulaanbaatar Region of Mongolia (Xac Bank office)	03/10/2016	Prakash Kumar Mishra (PKM)

	<ul style="list-style-type: none"> Competency of the PO and involved personnel. Overall organizational structure for data management and flow of information Meeting and interview with third party survey agency on procedure adopted for sampling and survey 			
2	Onsite verification of deployed stoves, interview with the ICS users on related issues, e.g. usage pattern, fuel saving, awareness level, maintenance procedure fuel consumption etc.	Ulaanbaatar Region of Mongolia (Xac Bank office)	03/10/2016	Prakash Kumar Mishra
3	Onsite verification of deployed stoves/gers, interview with the users on related issues, e.g. usage pattern, fuel saving, awareness level, maintenance procedure fuel consumption etc.	Ulaanbaatar Region of Mongolia (Xac Bank office)	04/10/2016	Prakash Kumar Mishra
3	Onsite verification of deployed stoves/gers, interview with the users on related issues, e.g. usage pattern, fuel saving, awareness level, maintenance procedure fuel consumption etc.	Ulaanbaatar Region of Mongolia (Xac Bank office)	04/10/2016	Prakash Kumar Mishra
4	<ul style="list-style-type: none"> Discussion on Monitoring reports compliance with MR filling guideline, PoA DD, CPA DDs, Validation report Documentary evidence check, data verification and comparison with onsite observation 	Ulaanbaatar Region of Mongolia (Xac Bank office)	05/10/2016	Prakash Kumar Mishra

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Blanchfield	Audra	MEC	03/10/2016	Program overview and Organisational structure, implementation status, Sales and credit tracker database management	PKM
2	Subramanian	Sriskandh	MEC	03/10/2016	Program overview and Organisational structure, implementation status, Sales and credit tracker database management, Development of MR and related documentation for CPA01 verification	PKM
3	Munkhbat	Batulga	XAcBank	03/10/2016	CPA implementation overview, Procedure and	PKM

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
					mechanism followed during usage survey	
4	-	Oyungeral	XacBank	03/10/2016	Procedure and mechanism followed during usage survey, QA/QC followed during survey	PKM
05	MISHKA	BAASANHÜÜ	CEP users	03/10/2016	CEP Information and usage	PKM
06	BYAMBASÜREN	NYAMBAZAR	CEP users	04/10/2016	CEP Information and usage	PKM
07	SÜNREVTSOOD OL	DASHAA	CEP users	04/10/2016	CEP Information and usage	PKM
08	DAMDINJAV	ULZIIBAYAR	CEP users	04/10/2016	CEP Information and usage	PKM
09	LKHAMSUREN	BURMAA	CEP users	04/10/2016	CEP Information and usage	PKM
10	TUUL	JADAMBAA	CEP users	04/10/2016	CEP Information and usage	PKM
11	KHAJID	ENKHEE	CEP users	04/10/2016	CEP Information and usage	PKM
12	YONDONJAMTS	HROE	CEP users	04/10/2016	CEP Information and usage	PKM
13	NYAMDELEG	DAVAASUREN	CEP users	04/10/2016	CEP Information and usage	PKM
14	URTNASAN	ENKHSARUUL	CEP users	04/10/2016	CEP Information and usage	PKM
15	ALTANGEREL	ODERDENE	CEP users	04/10/2016	CEP Information and usage	PKM
16	KHISHIGT	NASANBAT	CEP users	04/10/2016	CEP Information and usage	PKM
17	PALAMJAV	RINA	CEP users	04/10/2016	CEP Information and usage	PKM
18	ENKHEE	BATBAYAR	CEP users	04/10/2016	CEP Information and usage	PKM
19	DAMDINSUREN	BAIGALISÜREN	CEP users	04/10/2016	CEP Information and usage	PKM
20	TSERENKHAND	BATSAIKHAN	CEP users	04/10/2016	CEP Information and usage	PKM
21	ADYA	NOROVSAMBUU	CEP users	04/10/2016	CEP Information and usage	PKM
22	KHALTARKHÜÜ	SARANGEREL	CEP users	04/10/2016	CEP Information and usage	PKM
23	LAMJAV	BATHUYAG	CEP users	04/10/2016	CEP Information and usage	PKM
24	GOMBOJAV	GANBAYAR	CEP users	04/10/2016	CEP Information and usage	PKM
25	GANCHIMEG	DAVAA	CEP users	04/10/2016	CEP Information and usage	PKM
26	DOLGOR	ANKHTUYAA	CEP users	04/10/2016	CEP Information and usage	PKM
27	TSERENDOLGOR	TUMENBAYAR	CEP users	04/10/2016	CEP Information and usage	PKM
28	NYAMAA	MYAGMARSUREN	CEP users	04/10/2016	CEP Information and usage	PKM
29	SOSORBURAM	VANCHIG	CEP users	04/10/2016	CEP Information and usage	PKM
30	GAN	OCHIR	CEP users	04/10/2016	CEP Information and usage	PKM
31	TSOGTBAATAR	TSENDEEJAV	CEP users	04/10/2016	CEP Information	PKM

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
					and usage	
32	BAYASGALANT OGTOKH	JAMBAL	CEP users	04/10/2016	CEP Information and usage	PKM
33	BATDELGER	TSEVEENDORJ	CEP users	04/10/2016	CEP Information and usage	PKM
34	MILAA	STENGE	CEP users	04/10/2016	CEP Information and usage	PKM
35	OVGONKHUU	BDAAVE	CEP users	04/10/2016	CEP Information and usage	PKM
36	ADIYAACHIMEG	PURVEE	CEP users	04/10/2016	CEP Information and usage	PKM
37	RNBIW	TSERENDAVGA	CEP users	04/10/2016	CEP Information and usage	PKM
38	FITIS	SENGE	CEP users	04/10/2016	CEP Information and usage	PKM
39	BAZARRAGCHA A	BUDRA	CEP users	04/10/2016	CEP Information and usage	PKM
40	ERDENEBAAT	BURAADAI	CEP users	04/10/2016	CEP Information and usage	PKM
41	TUVSHINZAYAA	NYAMTSEREN	CEP users	04/10/2016	CEP Information and usage	PKM
42	TUMURCHUDUR	DAVAASUREN	CEP users	05/10/2016	CEP Information and usage	PKM
43	GEGEENBADRA L	BATSUREN	CEP users	05/10/2016	CEP Information and usage	PKM
44	BOOLORERDENE	BALJINNYAM	CEP users	05/10/2016	CEP Information and usage	PKM
45	MYAGMARSURE N	ERDENETSOGT	CEP users	05/10/2016	CEP Information and usage	PKM
46	ERDENEBAAYAR	BAYARMAGNAI	CEP users	05/10/2016	CEP Information and usage	PKM
47	GANTUYA	TSEGMIDIIN	CEP users	05/10/2016	CEP Information and usage	PKM
48	ULZIIBAT	DASHNYAM	CEP users	05/10/2016	CEP Information and usage	PKM
49	ODONCHIMEG	LUTAA	CEP users	05/10/2016	CEP Information and usage	PKM
50	LUVSANJAMTS	ZAGDBAZAR	CEP users	05/10/2016	CEP Information and usage	PKM
51	ERDENEBAAYAR	BAYARMAGNAI	CEP users	05/10/2016	CEP Information and usage	PKM
52	GANTUYA	TSEGMIDIIN	CEP users	05/10/2016	CEP Information and usage	PKM
53	ULZIIBAT	DASHNYAM	CEP users	05/10/2016	CEP Information and usage	PKM
54	ODONCHIMEG	LUTAA	CEP users	05/10/2016	CEP Information and usage	PKM
55	LUVSANJAMTS	ZAGDBAZAR	CEP users	05/10/2016	CEP Information and usage	PKM
56	ANKHBAYAR	BUYANTOGTOK H	CEP users	05/10/2016	CEP Information and usage	PKM
57	GOMBOSUREN	DASHPUNTSAG	CEP users	05/10/2016	CEP Information and usage	PKM
58	DULAMSUREN	HDEAD	CEP users	05/10/2016	CEP Information and usage	PKM
59	ERDENE OCHIR	TSERENDEJID	CEP users	05/10/2016	CEP Information and usage	PKM
60	AUYSH	BAYAR	CEP users	05/10/2016	CEP Information and usage	PKM

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
61	NADIA	DASHZEVEG	CEP users	05/10/2016	CEP Information and usage	PKM
62	HROE	YONDONJAMTS	CEP users	05/10/2016	CEP Information and usage	PKM
63	DAVAASUREN	NYAMDELEG	CEP users	05/10/2016	CEP Information and usage	PKM
64	MIGDORJ	TOM	CEP users	05/10/2016	CEP Information and usage	PKM
65	YESÖNJARGAL	LODOIDAMBA	CEP users	05/10/2016	CEP Information and usage	PKM
66	SERJMYADAG	OIDOV	CEP users	05/10/2016	CEP Information and usage	PKM
67	SERMEDDAMBA	DÜGERJAV	CEP users	05/10/2016	CEP Information and usage	PKM

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

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PoA-DD and/or CPA-DD form(s)	N/A	N/A	N/A
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline	0	0	0
Corrections	N/A	N/A	N/A
Changes to the start date of the crediting period	N/A	N/A	N/A
Inclusion of a monitoring plan in a registered PoA	N/A	N/A	N/A
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline	N/A	N/A	N/A
Types of changes specific to afforestation and reforestation project activities	N/A	N/A	N/A
Changes to the programme design of a registered PoA	N/A	N/A	N/A
Changes to project design of generic component project activities or specific-case component project activities	N/A	N/A	N/A
Others (please specify)	N/A	N/A	N/A
Total	0	0	0

SECTION D. Validation findings

D.1. Compliance with PoA-DD and/or CPA-DD form(s)

Means of validation	NA
Findings	NA
Conclusion	NA

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

Means of validation	Description of post registration change			
	Start Date: Please provide the start date of the change	01/08/2013	End Date: Please provide the end date of the change, if applicable	30/04/2016
	Description: Please give a detailed description of the change(s)	The purpose of temporary deviation in this monitoring period is to account the emission reduction from the efficient cooking and heating stoves only and not from the GER blankets though they are included in the CPA.		
	Assessment of temporary deviation			
	Accuracy: Please give a detailed assessment whether the correction is likely to lead to a reduction in the accuracy of the ER calculation.	The registered PoA-DD ^{/PoA-DD/} along with CPA-DD ^{/CPA-DD/} and applied methodology ^{/METH/} (AMS-II.E. version 10) are reviewed by the verification team. The DOE observed and assessed by means of physical inspection and interviews with the CEP users that CPA		

		<p># 01 deployed efficient cooking and heating stoves and home insulation products (GER Blankets) by Partner Organization (Xac Bank) in Mongolia. CEP models deployed under the programme were also cross checked from the program detailed database, credit tracker platform^{/ANN-08/}, and technical specifications^{/TECH/} of the CEPs.</p> <p>Though, the MEC Tracker Platform^{/ANN-08/} contains a unique entry for every Clean Energy Product (CEP) sold, identifiable by the unique ID number allotted to each of the CEP distributed under the CPA-001. Each CEP entry in the database contains multiple identifying characteristics to ensure that the product is accurately tracked, including household address, client's government issued passport number, GPS coordinates, and ongoing usage status updated through monitoring. The MEC Tracker Platform also contains information critical to crediting for each CEP, including CEP type, date of installation, and dwelling type. In order to credit two CEPs in the household, the MEC Tracker Platform must demonstrate the number of CEPs in the household, the order of installation, and the system of the "sister" CEP (other CEP in household). The MEC Tracker Platform currently defines the household via a match of household identifiers in the database (address, passport number, name) to identify those households that have purchased multiple CEPs. At this time, the MEC Tracker Platform is partially incomplete with respect to the identification of households and therefore the number and details of multiple CEPs in households. As this affects crediting for each CEP, the CME conservatively chooses to not credit GER blankets in this monitoring period.</p> <p>All the relevant sections in the monitoring report is found included with the information on temporary deviation. The clarifications made are found to be appropriate and in line with the onsite observation and document verification.</p> <p>It can be concluded that the applied temporary deviation in monitoring period has been verified and assessed as reasonable. Since the deviation didn't have any influence on ER accuracy and it can be confirmed that the approach is conservative and resulting in lower ER results as the PP does not claim any CERs for the GER Blankets distributed. This reduces the number of applications by 1270, therefore accepted by verification team. Further as per ER calculation it is evident that no sampling was done on "Blanket" and therefore has not been considered in the ER calculation. Pls refer to Annex 9 listing which are not included under numbers 3a to 3f sheets in ER calculation.</p> <p>The temporary deviation is in line with the applied methodology the request for prior approval by the Board is not necessary.</p>
	<p>Conservativeness: Please give a detailed assessment whether</p>	<p>Not considering the GER Blankets for the purpose of CER calculation is although not fully in line with the registered monitoring plan under the CPA. The CME is</p>

	<p>conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.</p>	<p>unable to precisely determine the emission reductions resulting from distribution of GER blankets due to technical glitch in the online credit tracker platform (online application for database management).</p> <p>However, non-crediting (zero) of GER Blankets results in accurate and conservative calculation of CERs under the current monitoring period and hence does not have any material impact. Further, in order to ensure that this approach is conservative, after the heating season 2014-15 & 2015-16, a survey was conducted in the GER households by the CME, where blankets were distributed. For a sample population of 60 GER for each heating season, each of the users has reported reduction in coal consumption as compared to heating seasons prior to the distribution of GER blankets. Details of the same have been submitted by PP in the GER Survey Report^{ANN-09/} which is assessed to be appropriate and in line with onsite visit observation and interview with the end users of the CEPs.</p> <p>This establishes that this temporary change is conservative. Moreover, CME has described during the verification audit to the verification team, that monitoring would improve to ensure that this information is captured from the Heating season 2017-2018 onwards and thus would start crediting of the GER blankets.</p>								
	<p>Appendix 1 PS: Check if the changes fall under one of the scenarios of appendix 1 of the PS.</p>	<p>Based on the above, it in accordance with §2 of the Appendix 1 of the Project Standard under temporary deviation does not require prior approval by the Board. PS Annex 1 Point 2 §2 states: If project participants or the coordinating/managing entity have temporarily not monitored parameters related to baseline greenhouse gas (GHG) emissions or are unable to produce evidence related to such monitoring, prior approval by the Board is not required if project participants or the coordinating/managing entity report these parameters as zero.</p> <p>As zero CERs are claimed for the corresponding GER blankets this is in line with above regulation and no prior approval is required.</p>								
Findings	No finding was raised.									
Conclusion	<p>As per §2 Appendix 1 of the CDM PS version 09, "If project participants or the coordinating/managing entity have temporarily not monitored parameters related to baseline greenhouse gas (GHG) emissions or are unable to produce evidence related to such monitoring, prior approval by the Board is not required if project participants or the coordinating/managing entity report these parameters as zero".</p> <p>CME/PP do not account the emission reduction by GER Blanket during the current monitoring period and transparently accrued only the emission reduction from the efficient heating and cooking stoves are considered to be deemed conservative and accepted by the DOE.</p> <table border="1" data-bbox="454 1877 1445 2047"> <tr> <th colspan="3" data-bbox="454 1877 718 1910">Revised CPA-DD</th></tr> <tr> <td data-bbox="454 1910 718 2047" rowspan="2"> Rev. of CPA-DD: Check whether the changes have been fully addressed in a revised PDD. </td><td data-bbox="718 1910 782 1982" style="text-align: center;"><input type="checkbox"/></td><td data-bbox="782 1910 1445 1982">The changes have correctly been reflected in the revised CPA-DD.</td></tr> <tr> <td data-bbox="718 1982 782 2047" style="text-align: center;"><input checked="" type="checkbox"/></td><td data-bbox="782 1982 1445 2047">A revision of the PoA-DD/CPA-DD is not required (in case of temp. changes).</td></tr> </table>		Revised CPA-DD			Rev. of CPA-DD: Check whether the changes have been fully addressed in a revised PDD.	<input type="checkbox"/>	The changes have correctly been reflected in the revised CPA-DD.	<input checked="" type="checkbox"/>	A revision of the PoA-DD/CPA-DD is not required (in case of temp. changes).
Revised CPA-DD										
Rev. of CPA-DD: Check whether the changes have been fully addressed in a revised PDD.	<input type="checkbox"/>	The changes have correctly been reflected in the revised CPA-DD.								
	<input checked="" type="checkbox"/>	A revision of the PoA-DD/CPA-DD is not required (in case of temp. changes).								

		<input type="checkbox"/>	The revised PDD has been forwarded in (i) track-change and (ii) clean version.
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D.3. Corrections

Means of validation	NA
Findings	NA
Conclusion	NA

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

Means of validation	NA
Findings	NA
Conclusion	NA

D.5. Inclusion of a monitoring plan in a registered PoA

Means of validation	NA
Findings	NA
Conclusion	NA

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

Means of validation	NA
Findings	NA
Conclusion	NA

D.7. Types of changes specific to afforestation and reforestation activities

Means of validation	NA
Findings	NA
Conclusion	NA

D.8. Changes to the programme design of a registered PoA

Means of validation	NA
Findings	NA
Conclusion	NA

D.9. Changes to project design of generic component project activities or specific-case component project activities

Means of validation	NA
Findings	NA
Conclusion	NA

SECTION E. Internal quality control>

Before submission of the final assessment report a technical review is carried out by a technical review team. Each member of the technical review team is a competent GHG auditor. At least one person of the technical review team is being appointed for the scope this project falls under. Thus the technical review team collectively has all knowledge and skills to conduct a technical review. 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 assessment opinion as prepared by the validation team leader may be confirmed or revised. Furthermore reporting improvements might be achieved.

SECTION F. Validation opinion

The below listed changes have occurred after the registration of the PoA.

Type of Change occurred	Total No. of changes	No. of changes which
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<input checked="" type="checkbox"/> Temporary deviations from the MP	01	0
<input type="checkbox"/> Temporary deviations from the MM		
<input type="checkbox"/> Corrections that do not affect the project		
<input type="checkbox"/> Changes to the start date of the crediting p.		
<input type="checkbox"/> Inclusion of a monitoring plan to a registered PoA		
<input type="checkbox"/> Permanent changes from the MP		
<input type="checkbox"/> Permanent changes from the MM or SB		
<input type="checkbox"/> Types of changes specific to AR projects		
<input type="checkbox"/> Changes to programme design of a registered PoA		
<input type="checkbox"/> Changes to project design of generic CPA or specific-case CPAs		

None of the changes require prior approval of the Board.

22/02/2017




Prakash Kumar Mishra
TÜV NORD JI/CDM CP
Assessment Team Leader

Appendix 1. Abbreviations

Abbreviations	Full texts
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CO ₂	Carbon dioxide
CO ₂ eq	Carbon dioxide equivalent
CL	Clarification Request
CEP	Clean Energy Products
CME	Co-ordinating Managing Entity
CPA-DD	Component Project Activity
Xac Bank	Xac Bank, CPA implementer
DVerR	Draft Verification Report
ER	Emission Reduction
FAR	Forward Action Request
GHG	Greenhouse gas(es)
CEP	Clean Energy Products
HES	Household Energy Survey
IM	Interview Memo
MP	Monitoring Plan
MR	Monitoring Report
PA	Project Activity
PoA-DD	Program of Activity Design Document
PCP	Project Cycle Procedure
PP	Project Participant
PS	Project Standard
QA/QC	Quality Assurance / Quality Control
MEC	Micro Energy Credits
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard
XLS	Emission Reduction Calculation Spread Sheet

Appendix 2. Competence of team members and technical reviewers



Statement of Competence
Assessment and authorization according to the procedures of the TÜV NORD JICDM Certification Program

Mr. Prakash Kumar Mishra


SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification)	2017-12-17
VCS / ISO 14064-2	Lead Assessor	2017-12-17

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
3.1	Energy demand

146 - Rev. 3, Date: 2015-06-15

146_2011-14000-F20-2015-01-05_w4.doc



Statement of Competence
Assessment and authorization according to the procedures of the TÜV NORD JICDM Certification Program

Mr. Rainer Winter


SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2019-07-01
J1	Senior Assessor Technical Reviewer	2019-07-01
VCS / ISO 14064-2	Senior Assessor Technical Reviewer	2019-07-01

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.1	Thermal Energy Generation
1.2	Renewables
4.1	Cement and lime production
4.2	Paper
5.1	Chemical industry
5.2	Caprolactam, nitric and adipic acid
8.1	Mining/mineral production
9.1	Aluminum and magnesium production
9.2	Iron, steel and Ferro-alloy production
11.1	Emissions of fluorinated gases
11.2	Refrigerant gas production
12.1	Chemical industry
13.1	Solid waste and wastewater

003 - Rev. 10, Date: 2016-07-01

003_2011-14000-F20-2016-07-01_w10.doc



Statement of Competence
Assessment and authorization according to the procedures of the TÜV NORD JICDM Certification Program

Mr. Stefan Winter

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2017-07-27
VCS	Senior Assessor (Validation, Verification) Technical Reviewer	2017-07-27

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.1	Thermal energy generation
1.2	Renewables
2.1	Energy distribution
3.1	Energy demand
4.1	Cement and lime production
4.2	Paper
5.2	Caprolactam, nitric and adipic acid
9.1	Aluminum and magnesium production
9.2	Iron, steel and Ferro-alloy production
13.1	Solid waste and wastewater
13.2	Manure

163 - Rev. 4, Date: 2015-01-05

163_2011-14000-F20-2015-01-05_w4.doc

Appendix 3. Documents reviewed or referenced

No.	Author	Reference	Title	References to the document	Provider
1	UNFCCC	/AMS II.E/	Energy efficiency and fuel switching measures for buildings version 10"	http://cdm.unfccc.int	Other
2	UNFCCC	/CPA-DD/	COMPONENT PROJECT ACTIVITIES DESIGN DOCUMENT titled" MicroEnergy Credits -- Microfinance for Clean Energy Product Lines – Mongolia- CPA No.001"	http://cdm.unfccc.int	other
3	UNFCCC	/PoA-DD/	"MicroEnergy Credits -- Microfinance for Clean Energy Product Lines – Mongolia"		
4	MEC	/ANNEX-1/ ^{XLS/}	ER Calculations spreadsheet and & House hold Energy Survey-2014-15 and 2015-2016		
5	MEC	/ANNEX-2/ ^{XLS/HES/}	ER Calculations spreadsheet and & House hold Energy Survey-2014-15 and 2015-2016		Other
6		/ANN-3/ ^{CTP/}	MicroEnergy Credits Tracker Platform Summary_v1	2016	Other
7		/ANN-4/ ^{HES/}	MCA Mongolia Household Survey Report	2011-2012	other
08	MEC	/ANN-8/ ^{CTP/}	MEC Tracker Database_CPA No. 001_v1	2015-2016 http://tracker3.microenergycredits.net/admin/xac	Other

No.	Author	Reference	Title	References to the document	Provider
09	CME	/ANN-9/	Survey GER Blanket Confirmation	2016	Other
10	DOE	/CPM/	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)		Other
11	IPCC	/IPCC/	1. 1996 IPCC Guidelines for National Greenhouse Gas Inventories: work book 2. 2006 IPCC Guidelines for National Greenhouse Gas Inventories: work book	www.ipcc-nggip.iges.or.jp	Other
12	UNFCCC	/KP/	Kyoto Protocol (1997)	http://unfccc.int/kyoto_protocol/items/2830.php	Other
13	UNFCCC	/MA/	Decision 3/CMP. 1 (Marrakesh – Accords)	http://cdm.unfccc.int/Reference/CO2PMOP/index.html	Other
14	UNFCCC	/PS/	CDM Project Standard (Version 9.0)	http://cdm.unfccc.int/Reference/Standards/index.html	Other
15	PP	/VAL/	Validation Report for PoA project “MicroEnergy Credits -- Microfinance for Clean Energy Product Lines - Mongolia” report No.2012-9655	unfccc	Other
16	Manufacturer	/TECH/	Technical specification of CEP	-	Other
17	UNFCCC	/VVS/	CDM Validation and Verification Standard (Version 09.0)	http://cdm.unfccc.int/Reference/Standards/index.html	Other
18	UNFCCC	/G-SS/	“Guidelines for Sampling and Surveys for CDM Project Activities and Programme Activities” (Version 03.0) “Standard for Sampling and Surveys for CDM Project Activities and Programme Activities” (version 4.1)	https://cdm.unfccc.int/Reference/Guidclarif/index.html http://cdm.unfccc.int/Reference/Standards/index.html	Other
19	UNFCCC	/GOT/	Glossary “CDM terms” (version 08.0)	https://cdm.unfccc.int/filestorage/e/xt/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fDCW9A3vJwR03kQ Qh4sbLiYu	Other
20	PP	/MR/	<ul style="list-style-type: none"> • MicroEnergy Credits - Microfinance for Clean Energy Product Lines – Mongolia dated 23/01/2017 version 3 • MicroEnergy Credits - Microfinance for Clean Energy Product Lines – Mongolia dated 30/12/2016 version 2 • MicroEnergy Credits - Microfinance 		CME

No.	Author	Reference	Title	References to the document	Provider
			for Clean Energy Product Lines – Mongolia dated 08/09/2016 version 1		

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

Table 1. CL from this validation

CL ID	xx	Section no.	Date: DD/MM/YYYY
Description of CL			
No CL Raised			
CME's response			Date: DD/MM/YYYY
Documentation provided by CME			
DOE assessment			Date: DD/MM/YYYY

Table 2. CAR from this validation

CAR ID	xx	Section no.	Date: DD/MM/YYYY
Description of CAR			
No CAR raised			
CME's response			Date: DD/MM/YYYY
Documentation provided by CME			
DOE assessment			Date: DD/MM/YYYY

Table 3. FAR from this validation

FAR ID	xx	Section no.	Date: DD/MM/YYYY
Description of FAR			
NO FAR raised			
CME's response			Date: DD/MM/YYYY
Documentation provided by CME			
DOE assessment			Date: DD/MM/YYYY

Document information

Version	Date	Description
01.0	5 June 2015	Initial publication.
Decision Class: Regulatory		
Document Type: Form		
Business Function: Registration		
Keywords: post-registration change, programme of activities, validation report		