



## Validation report form for post-registration changes for component project activities

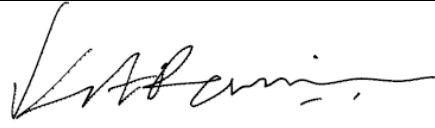
(Version 01.0)

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

### BASIC INFORMATION

<b>Title and UNFCCC reference number of the component project activity (CPA)</b>	Accelerating Electrification through Grid Extension and off-grid electrification in Rural Areas of Uganda CPA 2 UNFCCC Ref. No.: 10186-0002
<b>Version number of the validation report on CPA PRCs</b>	1.0
<b>Completion date of the validation report on CPA PRCs</b>	28/01/2019
<b>Version number of PoA-DD and CPA-DD applicable to this validation report</b>	PoA-DD: v9.0 CPA-DD: v6.0
<b>Title and UNFCCC ref. no. of the registered PoA into which the CPA is included</b>	Accelerating Electrification through Grid Extension and Off-Grid Electrification in Rural Areas of Uganda Reference Number: 10186
<b>Type(s) of CPA PRCs</b>	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input checked="" type="checkbox"/> Inclusion of monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation activities
<b>Coordinating/managing entity</b>	Rural Electrification Agency Uganda
<b>Host Parties</b>	Republic of Uganda
<b>Applied methodologies and standardized baselines</b>	AMS-III.BB: Electrification of Communities Through Grid Extension or Construction of New Mini-Grids, version 2.0
<b>Mandatory sectoral scopes linked to the applied methodologies</b>	2
<b>Conditional sectoral scopes linked to the applied methodologies, if applicable</b>	-
<b>Name and UNFCCC reference number of the DOE</b>	Name: TÜV NORD CERT GmbH (TÜV NORD) Ref. No.: E-0022

Name, position and signature of the  
approver of the validation report on CPA  
PRCs



Kunal Rami  
Final Approval

**SECTION A. Executive summary**

The World Bank has commissioned the TÜV NORD JI/CDM Certification Program (CP) to assess post registration changes of the CPA (UNFCCC Reference: 10186-0002)

**“Accelerating Electrification through Grid Extension and off-grid electrification in Rural Areas of Uganda CPA 2”**

The assessment of appropriateness of proposed post registration changes at CPA level is assessed in this report.

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

**Table 1: Project Characteristics**

Item	Data	
Project title	Accelerating Electrification through Grid Extension and off-grid electrification in Rural Areas of Uganda CPA 2	
Project type	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> CPA
Project size	<input type="checkbox"/> Large Scale	<input checked="" type="checkbox"/> Small Scale
Technical Area(s)	2.1: Energy Distribution	
Location	Uganda	

For a detailed project description please refer to the registered CPA-DD.

**SECTION B. Validation team, technical reviewer and approver**

On the basis of a competence analysis and individual availabilities an assessment team, consistent of one team leader and one team member, 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 following 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			
						Document review	On-site inspection	Interviews	Validation findings
1.	Team Leader/Technical Expert	IR	Winter	Stefan	-	x	x	x	x
2.	Team Member	EI	Lubanga	David	-	x	x	x	x

**B.2. Technical reviewer and approver of the validation report on CPA 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/ Approver	IR	Rami	Kunal	TN CERT GmbH

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

The assessment of post registration changes consisted of the following steps:

- Appointment of team members and technical reviewers
- A desk review of the registered and revised PoA DD<sup>/PoA-DD/</sup>, which includes the generic CPA-DDs, CPA-DD (CPA-10186-0002)<sup>/CPA-DD/</sup> submitted by the client and additional supporting documents
- 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.

The registered as well as the revised PoA-DD and CPA-DD and supporting background documents related to the project design and the post registration changes 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 all documents reviewed or referenced during this validation is presented in Appendix 3.

**C.2. On-site inspection**

Duration of on-site inspection: 23/05/2018~29/05/2018				
No.	Activity performed on-site	Site location	Date	Team member
1.	Introductory meeting and interviews with CME representatives	Rural Electrification Agency Offices	23/05/2018	Stefan Winter, David Lubanga
	- Interviews with UMEME management representatives & staff - Discussion of required documents and site location checks	UMEME Main Offices	23/05/2018	Stefan Winter, David Lubanga
2.	- Interviews with PACMECS representatives & staff - Check of billing system - Check of records & compare with ER data applied - Check of data management system	PACMECS Offices	24/05/2018 and 25/05/2018	Stefan Winter

3.	<ul style="list-style-type: none"> <li>- Interviews with KRECS representatives &amp; staff</li> <li>- Check of billing system</li> <li>- Check of records &amp; compare with ER data applied</li> <li>- Check of data management system</li> <li>- Check of physical installations at sample number of households under KRECS</li> <li>- Interviews with sampled end-users</li> </ul>	KRECS Offices and Households	25/05/2018	David Lubanga
4.	<ul style="list-style-type: none"> <li>- Interviews with BECS representatives &amp; Staff</li> <li>- Check of billing system</li> <li>- Check of records &amp; compare with ER data applied</li> <li>- Check of data management system</li> <li>- Check of physical installations at sample number of households under BECS</li> <li>- Interviews with sampled end-users</li> </ul>	BECS Offices and Households	26/05/2018	David Lubanga
5.	<ul style="list-style-type: none"> <li>- Interviews with KIL representatives &amp; staff</li> <li>- Check of billing system</li> <li>- Check of records &amp; compare with ER data applied</li> <li>- Check of data management system</li> <li>- Check of physical installations at sample number of households under KIL</li> <li>- Interviews with sampled end-users</li> </ul>	KIL Offices and Households	27/05/2018	David Lubanga
6.	<ul style="list-style-type: none"> <li>- Interviews with UMEME representatives &amp; staff</li> <li>- Check of billing system</li> <li>- Check of records &amp; compare with ER data applied</li> <li>- Check of data management system</li> <li>- Interviews with sampled end-users</li> </ul>	UMEME Service Offices	28/05/2018	Stefan Winter
7.	<ul style="list-style-type: none"> <li>- Check of physical installations at sample number of households under UMEME</li> <li>- Interviews with sampled end-users</li> </ul>	Households	29/05/2018	Stefan Winter
8.	Final Meeting with CME <ul style="list-style-type: none"> <li>- Audit results</li> <li>- ER Calculations</li> <li>- PRC</li> <li>- Timelines</li> </ul>	Rural Electrification Agency Offices	29/05/2018	Stefan Winter David Lubanga

**C.3. Interviews**

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Belenky	Lucas	Ci-dev/Consultant	23/05/2018 – 29/05/2018	<ul style="list-style-type: none"> <li>• Project history</li> <li>• Implementation</li> <li>• General Organization and structure</li> <li>• Partners</li> <li>• PRC</li> <li>• Monitoring plan</li> <li>• ER Calculations</li> </ul>	Stefan Winter David Lubanga
2.	Kodet	Connie	Financial & Economic Analyst/REA	23/05/2018	<ul style="list-style-type: none"> <li>• Financing mechanisms</li> <li>• Other SP support</li> <li>• Billing systems</li> <li>• Relationship between REA and SPs</li> <li>• Implementation</li> </ul>	David Lubanga
3.	Kato	Moses	Environmental Officer/REA	23/05/2018	Regulatory issues	David Lubanga
4.	Nantume	Deborah	P&TME/REA	23/05/2018	-	David Lubanga
5.	Kimbogwe	Denis	CPO/REA	23/05/2018	-	David Lubanga
6.	Birikadde	Grace	ES/REA	23/05/2018	<ul style="list-style-type: none"> <li>• Roles and responsibilities</li> <li>• Billing systems</li> <li>• Territories covered</li> <li>• Data aggregation</li> </ul>	David Lubanga

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
7.	Wamala	Adam	Programme Coordinator/ UMEME	23/05/2018	<ul style="list-style-type: none"> <li>- Territories covered</li> <li>- Agreement with CME</li> <li>- Programs implemented</li> <li>- Financing</li> <li>- Technical support</li> <li>- Connection process</li> <li>- Transmission lines built (if applicable)</li> <li>- Billing system</li> <li>- Data capture</li> <li>- Data aggregation</li> <li>- Management system</li> <li>- Roles and responsibilities</li> </ul>	David Lubanga
8.	Serwadda	Isaac	Projects Manager/ UMEME	23/05/2018	-	David Lubanga
9.	Kimbowa	Dansturn	Project Engineer/ UMEME	23/05/2018	-	David Lubanga
10.	Selware	Stephen	Project Engineer/ UMEME	23/05/2018	-	David Lubanga
11.	Biningi	Godfrey	IT Systems Admin/KRECS	25/05/2018	<ul style="list-style-type: none"> <li>- Billing system</li> <li>- Customer details</li> <li>- Data entry and management</li> <li>- Data integrity</li> </ul>	David Lubanga
12.	Mwesige	Chris	Cashier/KRECS	25/05/2018	-	David Lubanga
13.	Musoke	Abdallatifu	KRECS/Finance Manager	25/05/2018	Purchasing mechanism	David Lubanga
14.	Ateneka Lilian	Moses	Cashier/KRECS	25/05/2018	-	David Lubanga
15.	Lole	Sowed	Technical Manager/KRECS	25/05/2018	<ul style="list-style-type: none"> <li>• Connections and transmissions</li> <li>• Monitoring and maintenance</li> </ul>	David Lubanga
16.	Mujuni	Kaiungi	Linesman/KRECS	25/05/2018	<ul style="list-style-type: none"> <li>• Connections and transmissions</li> <li>• Monitoring and maintenance</li> </ul>	David Lubanga

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
17.	Mame	Charles	General Manager/KRECS	25/05/2018	<ul style="list-style-type: none"> <li>• KRECS history</li> <li>• Membership</li> <li>• Costs of connections</li> <li>• Type of customer</li> <li>• Connection loads</li> <li>• Payment modes</li> <li>• Implementation process</li> <li>• MoU with REA</li> <li>• Transmission lines</li> <li>• Billing system</li> </ul>	David Lubanga
18.	Baseka	Danny	PRMO/KRECS	25/05/2018	-	David Lubanga
19.	Twikinize	Johnson	Technical Officer/KRECS	25/05/2018	-	David Lubanga
20.	Kabagabu	Beatrice	Owner/Good Samaritan Shop	25/05/2018	<ul style="list-style-type: none"> <li>• Previous energy use</li> <li>• Connection process</li> <li>• Names</li> <li>• Date of connection</li> <li>• Consumption</li> <li>• Mode of purchase</li> <li>• Reliability</li> <li>• Data collected</li> </ul>	David Lubanga
21.	Nyanya	Patricia	Household	25/05/2018		
22.	Kahunde	Doreen	Household	25/05/2018		
23.	Mandy	Florence	Owner/Gilman	25/05/2018		
24.	Kembabazi	Mary	Household	25/05/2018		
25.	Achen	Caroline	Household	25/05/2018		
26.	Rwabuhoro	Fredrick	Household	25/05/2018		
27.	Muhanuzi	Patrick	Household	25/05/2018		
28.		Nicholas	Household	25/05/2018		
29.	Mugidde	Esther	Household	25/05/2018		
30.	Asiimwe	Julliet	Household	25/05/2018		
31.	Ategeka	Nicholas	Household			
32.	Akanterana	E	Owner/stock Shop	25/05/2018		
33.	Kabusina	Leah	Household	25/05/2018		
34.	Birungi	Godfrey	Shop	25/05/2018		
35.	Bright	Kellen	Shop	25/05/2018		
36.	Ssekago	Abdullah	Household	25/05/2018		
37.	Agaba	Ismail	Assistant Linesman/B ECS	26/05/2018	-	David Lubanga
38.	Ryamukama	Stephen	Technical Officer/BEC S	26/05/2018	-	David Lubanga
39.	Biira	Florence	Accounts/B ECS	26/05/2018	-	David Lubanga
40.	Tibasima	Happy	ICT Officer/BECS	26/05/2018	<ul style="list-style-type: none"> <li>• Billing system</li> </ul>	David Lubanga
41.	Kyomugisha	Beatrice	Daughter/Household	26/05/2018	<ul style="list-style-type: none"> <li>• Previous energy use</li> <li>• Connection process</li> <li>• Names</li> </ul>	David Lubanga
42.	Ssalongo	Moses	Manager/Bluesky Lodge	26/05/2018		
43.	Byekkiaso	Brian	Nephew/Household	26/05/2018		



No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
44.	Matali	Boniface	Business Owner	26/05/2018	<ul style="list-style-type: none"> <li>• Date of connection</li> <li>• Consumption</li> <li>• Mode of purchase</li> <li>• Reliability</li> <li>• Data collected</li> </ul>	
45.	Byamaka	Ded	Owner/Guest House	26/05/2018		
46.	Mulindwa	Dan	Household	26/05/2018		
47.	Kabatooro		Household	26/05/2018		
48.	Kudala	Nubukusya	Household	26/05/2018		
49.	Birungi	Scovia	Household	26/05/2018		
50.		Mary	Household	26/05/2018		
51.	Byamukama	Jonas	Household	26/05/2018		
52.	Bamwiisibye		Household	26/05/2018		
53.	Tibekmata	Joseph	Household	26/05/2018		
54.	Kugumisirira	John	Household	26/05/2018		
55.	Kamalabe	Costa	Household	26/05/2018		
56.	Kabugho	Zubeda	Household	26/05/2018		
57.	Saturday	Johnson	Household	26/05/2018		
58.	Masika	Annette	Household	26/05/2018		
59.	Nsubuga	Thembo	Owner/Salon	26/05/2018		
60.	Haurat		Daughter/Household	26/05/2018		
61.	Biira	Jehu	Owner/Shop	26/05/2018		
62.	Biira	Jusi	Household			
63.	Bwambale	Zakariah	Household	26/05/2018		
64.	Mumbere	Joseph	Household	26/05/2018		
65.	Kaherwa	Jackline	Household	26/05/2018		
66.	Masereka	Stephen	Household	26/05/2018		
67.	Muhindo	Julius	Head of Finance/KIL	27/05/2018	<ul style="list-style-type: none"> <li>- Territories covered</li> <li>- Agreement with CME</li> <li>- Programs implemented</li> <li>- Financing</li> <li>- Technical support</li> <li>- Connection process</li> <li>- Transmission lines built (if applicable)</li> <li>- Billing system</li> <li>- Data capture</li> <li>- Data aggregation</li> <li>- Management system</li> <li>- Roles and responsibilities</li> </ul>	David Lubanga

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
68.	Kitatamire	Zolfa	Senior Accounts Assistant/KIL	27/05/2018	-	David Lubanga
69.	Nzembule	Simon	Electrical Inspector/KIL	27/05/2018	-	David Lubanga
70.	Mucunguzi	Donozio	ICT Officer/KIL	27/05/2018	<ul style="list-style-type: none"> <li>- Territories covered</li> <li>- Agreement with CME</li> <li>- Programs implemented</li> <li>- Financing</li> <li>- Technical support</li> <li>- Connection process</li> <li>- Transmission lines built (if applicable)</li> <li>- Billing system</li> <li>- Data capture</li> <li>- Data aggregation</li> <li>- Management system</li> <li>- Roles and responsibilities</li> </ul>	David Lubanga
71.	Masereka	Eric	Stores Assistant/KIL	27/05/2018	-	David Lubanga
72.	Masika	Immaculate	Storekeeper /KIL	27/05/2018	-	David Lubanga
73.	Asa	Graham	Commercial Services Officer/KIL	27/05/2018	-	David Lubanga
74.	Bwambale	Kathaliko	Compliance Officer/KIL	27/05/2018	-	David Lubanga
75.	Mberemo	Nathan	Household	27/05/2018	<ul style="list-style-type: none"> <li>• Previous energy use</li> <li>• Connection process</li> <li>• Names</li> <li>• Date of connection</li> <li>• Consumption</li> <li>• Mode of purchase</li> <li>• Reliability</li> <li>• Data collected</li> </ul>	David Lubanga
76.	Babulya	Apollo	Household	27/05/2018		
77.	Nguru	David	Household	27/05/2018		
78.	Buluku	Yona	Relative/Household	27/05/2018		
79.	Bulu	Kuyona	Household	27/05/2018		
80.	Sikulaba	Scovia	Wife/Household	27/05/2018		
81.	Dorokasi	Muhindo	Household	27/05/2018		
82.	Kiminywa	William	Household	27/05/2018		
83.	Masereka	Robert	Household	27/05/2018		

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
84.	Munaba	Joyce	Tenant/Business	27/05/2018		

#### 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 CPA-DD form	0	0	0
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines	0	0	0
Corrections	1	1	0
Changes to the start date of the crediting period	0	0	0
Inclusion of monitoring plan	0	0	0
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools	0	0	0
Changes to the project design	0	0	0
Changes specific to afforestation and reforestation project activities	0	0	0
Others (please specify)	0	0	0
<b>Total</b>	<b>1</b>	<b>1</b>	<b>0</b>

### SECTION D. Validation findings

#### D.1. Compliance with CPA-DD form

<b>Means of validation</b>	<p>The project participants used a latest version of the CPA-DD form for the revised CPA-DD than the version of the CPA-DD form of the registered CPA-DD. By means of checking updated CPA-DD with the latest applicable and available CPA-DD PDD template form the validation team can confirm that the information transferred to the later version of the CPA-DD form is materially the same as that in the registered CPA-DD besides those changes highlighted and assessed under this report.</p> <p>Further it has been checked whether the latest instructions for filling out the CPA-DD template have been followed. Every section has been checked against the respective guidance.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /CPA-DD/</li> <li>• /CPA-DD-F/</li> <li>• /unfccc/</li> </ul>
<b>Findings</b>	-
<b>Conclusion</b>	The updated CPA-DD both in tracked-change and clean version is in line with the latest applicable CPA-DD form. The validation team can confirm that the information transferred to the later valid version of the form is materially the same as that in the included CPA-DD

#### D.2. Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines- N/A

<b>Means of validation</b>	Type of change(s):	<input type="checkbox"/>	Temporary Deviation from Monitoring Plan	
		<input type="checkbox"/>	Temporary Deviation from applied Methodologies	
	<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the start date of the change	DD/MM/YYYY	<b>End Date:</b> Please provide the end date of the change, if applicable	DD/MM/YYYY
	<b>Description:</b> Please give a detailed description of the	N/A		

	change(s)		
	<b>Assessment of post registration change – Temporary deviations from MP or MM</b>		
	<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.		
	<b>Conservative-ness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.		
	<b>Appendix 2 PS:</b> Check if the changes fall under one of the scenarios of Appendix 2 of the PS for PoA.		
<b>Findings</b>			
<b>Conclusion</b>			
Based on the above the temporary deviation(s) from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline are in accordance with applicable validation requirements related to the Temporary deviations from the registered monitoring plan, applied methodologies or standardized baselines in the VVS for PoA.			
<b>Revised PoA DD and/or CPA DD</b>			
<b>Rev. of PoA DD and/or CPA DD:</b> Check whether the changes have been fully addressed in a revised PoA DD and/or CPA DD.		<input type="checkbox"/>	The changes have correctly been reflected in the revised PoA DD and/or CPA DD.
		<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).
		<input type="checkbox"/>	The revised PoA DD and/or CPA DD has been forwarded in (i) track-change and (ii) clean version.
<b>Prior Approval</b>			
<b>Prior approval:</b> Assess whether the change requires prior approval of the board		<input type="checkbox"/>	The post registration change requires prior approval
		<input type="checkbox"/>	The post registration change does not require prior approval

### D.3. Corrections

Means of validation	<b>Description of post registration change</b>		
	<b>Start Date:</b> Please provide the start date of the change	28/08/2015	<b>End Date:</b> Please provide the end date of the change, if applicable
	<b>Description:</b> Please give a detailed description of the change(s)		
		The CPA-DD has been updated to be in compliance with the latest approved PoA-DD. PoA-DD has been changed recently and PRC on PoA-DD has been approved on 14/01/2019 vide PRC ref No. PRC-10186-002. Main changes are as following.	
		1. Meter number has been included as a unique identifier in addition to GPS coordinates. The relevant eligibility criteria have been edited to be in line with this addition	
		2. Further editorial changes have been effected in various sections of the PoA and CPA Design Documents as the latest template versions have been adopted.	
		3. Further editorial changes have been effected in	

		<p>various sections of the CPA-DD as the latest CPA-DD template has been adopted.</p> <p>All the proposed editorial corrections do not affect the design of the PoA, and are all in line with the CDM project standard for programmes of Activities - version 2.0</p> <p>Appendix 6 of the revised CPA-DD has been updated to capture the proposed changes.</p>		
	<b>Assessment of post registration change – Corrections</b>			
	<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.	The proposed corrections have no impact on the accuracy of emission reduction calculations or the proposed monitoring plan.		
	<b>Conservative-ness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.	The correction has no impact on the accuracy of emission reduction calculations.		
	<b>Appendix 2 PS:</b> Check if the changes fall under one of the scenarios of Appendix 2 of the PS for PoA.	The changes fall under §1 a) of Appendix 2 of the CDM project standard for programmes of Activities, version 02.0. As per §228 of the same document, post-registration changes to a included CDM CPA do not require approval by the Board but shall be notified to the secretariat.		
<b>Findings</b>	CL 01, CAR 01			
<b>Conclusion</b>	Based on the above stated the corrections to the registered CPA-DD are in accordance with applicable validation requirements related to the corrections in the VVS for PoA.			
	<b>Revised PoA DD and/or CPA DD</b>			
	<b>Rev. of PoA DD and/or CPA DD:</b> Check whether the changes have been fully addressed in a revised PoA DD and/or CPA DD.	<input checked="" type="checkbox"/>	The changes have correctly been reflected in the revised PoA DD and/or CPA DD.	
		<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).	
		<input checked="" type="checkbox"/>	The revised PoA DD and/or CPA DD has been forwarded in (i) track-change and (ii) clean version.	
	<b>Prior Approval</b>			
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval	
		<input checked="" type="checkbox"/>	The post registration change does not require prior approval	
<input checked="" type="checkbox"/>		The post registration change is hereby notified to the secretariat in line with PS §228		

#### D.4. Changes to the start date of the crediting period- N/A

<b>Means of validation</b>	<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the registered start date of the CP.	N/A	<b>Revised Start Date:</b> Please provide the proposed revised start date of the CP	DD/MM/YYYY
	<b>Description:</b> Please give a detailed description /reasoning of the requested revision of CP starting date:			

	<b>LDC:</b>		<input type="checkbox"/>	The host country is a LDC
	Please check if the host country is an LDC. In case of LDCs the timeframes of the below defined categories are to be doubled.		<input type="checkbox"/>	The host country is <b>not</b> a LDC
	<b>Categories:</b>		<input type="checkbox"/>	Category A: $> \pm 2$ a
	Please check under which category - as defined below - the requested changes fall. In case of LDCs the timeframes are to be doubled.		<input type="checkbox"/>	Category B: $< \pm 1$ a; not before registration date
			<input type="checkbox"/>	Category C: $(SD_{old} \pm 1 \text{ a}) \leq SD_{new} \leq (SD_{old} \pm 2 \text{ a})$
	<b>Assessment of post registration change</b>			
	<b>Cat. A: <math>&gt; \pm 2</math> a</b>		<input type="checkbox"/>	The change is a cat. A case. The change of the CP start date as requested by the PP is not allowed as per the PS. Thus a corresponding CAR has been raised.
	<b>Cat. B: <math>&lt; \pm 1</math> a</b>		<input type="checkbox"/>	The change is a cat. B case. The proposed new CP start date differs less than $\pm 1$ year (2 years in case of LDCs) from the registered CP start date. Furthermore it is confirmed that the proposed new CP start date is not before the registration date of the PA. Thus a prior approval is not required.
	<b>Cat. B: <math>\pm 1 \text{ a} &lt; SD &lt; \pm 2 \text{ a}</math></b>		<input type="checkbox"/>	The change is a cat. C case.
	Check whether the project falls under this category. If yes prior approval is required. The assessment team shall assess on the basis of a demonstration by the PPs whether the conservativeness of the baseline is not affected by changes that have occurred in-between. Further it has to be assessed, whether substantive progress has been made by the PPs to start the project activity.		<input type="checkbox"/>	The PPs have provided the assessment team with a sufficient demonstration regarding (i) potential effects on the baseline and (ii) progress made to start the project.
		<input type="checkbox"/>	On the basis of a detailed analysis of the PP's demonstration as well as background investigation (incl. on-site inspection) the assessment team confirms that no changes have occurred to the PA which would result in a less conservative baseline. This assessment is based on the following considerations:	
		<input type="checkbox"/>	On the basis of a detailed analysis of the PP's demonstration as well as background investigation (incl. on-site inspection) the assessment team confirms that substantive progress has been made by the PPs to start the PA. This assessment is based on the following considerations:	
<b>Findings</b>		N/A		
<b>Conclusion</b>		Based on the assessment above the changes to the start date of the crediting period are in accordance with applicable validation requirements related to the changes to the start date of the crediting period in the VVS for PoA.		
		<b>Revised PoA DD and/or CPA DD</b>		
<b>Rev. of PoA DD and/or CPA DD:</b>		<input type="checkbox"/>	The changes have correctly been reflected in the revised PoA DD and/or CPA DD.	
Check whether the changes have been fully addressed in a revised PoA DD and/or CPA DD.		<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).	
		<input type="checkbox"/>	The revised PoA DD and/or CPA DD has been forwarded in (i) track-change and (ii) clean version.	
		<b>Prior Approval</b>		
<b>Prior approval:</b>		<input type="checkbox"/>	The post registration change requires prior approval	

	Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change does not require prior approval
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**D.5. Inclusion of monitoring plan**

<b>Means of validation</b>	<b>Description of post registration change</b>		
	<b>Start Date:</b> Please provide the start date of the change	28/08/2015	<b>End Date:</b> Please provide the end date of the change, if applicable
	<b>Description:</b> Please give a detailed description of the change(s)	<p>As per §235 of the CDM PoA Standard version 02.0, 'The coordinating/managing entity may submit the monitoring plan of a CDM PoA or CPA after its registration or inclusion in a registered CDM PoA in accordance with paragraph 116 or 182 above, respectively.'</p> <p>In line with §116 b) of the PoA PS version 2.0, the CME is submitting the monitoring plan for the generic Type A CPA together with the request for issuance of CERs for the first monitoring period of the PoA.</p> <p><b>Assessment of monitoring parameters</b></p> <p>The parameters proposed for monitoring during the crediting period are as follows: -</p> <p style="text-align: center;">1. <i>Parameter <math>EC_{T1M,j,y}</math></i></p> <p>This is the electricity metered at Type I-M consumers. As per §14 b) of AMS-III.BB, billing records from pre-paid connections are used to determine the electricity purchased by each project activity consumer. The total electricity consumed for each consumer is the total of the pre-paid electricity purchased during the monitoring period. This summation however, excludes the last purchase during the monitoring period but includes the last purchase of the previous monitoring period. The total electricity delivered is the summation of the electricity purchased by consumers under the component project activity.</p> <p style="text-align: center;">2. <i>Parameter <math>EC_{T2,j,y}</math></i></p> <p>This is the electricity metered at Type II consumers.</p> <p>As per §14 b) of AMS-III.BB, billing records from pre-paid connections are used to determine the electricity purchased by each project activity consumer. The total electricity consumed for each consumer is the total of the pre-paid electricity purchased during the monitoring period. This summation however, excludes the last purchase during the monitoring period but includes the last purchase of the previous monitoring period. The total electricity delivered is the summation of the electricity purchased by all the type II consumers under the component project activity.</p> <p style="text-align: center;">3. <i>Parameter <math>EF_{grid,CO2,y}</math></i></p> <p>This parameter is the Emissions Factor for the project electricity system in year y.</p> <p>Project emissions (PE) from grid electricity generation in year y have to be accounted for in line with §34 of the applied methodology.</p>	

	<p>The CPA involves connection to an existing national grid. Therefore, as a deviation from the applied AMS.III-BB version 2.0, the generic CPA-DD prescribes alternatives i) and ii) in Option 3 under the methodology AMS.III-BL version 1.0</p> <p>4. <i>Parameter <math>f_{HH}</math></i></p> <p>This is the fraction of end-users under the CPA that are households. The parameter is necessary to ensure CPA compliance with prescribed applicability conditions of the applied methodology. As per §5, at least 75% of the project consumers shall be households.</p> <p>5. <i>Parameter Proportion of <math>N_y</math>, <math>N_{My}</math>, <math>N_{exist,y}</math> and <math>M_y</math> having access to the grid</i></p> <p>This is the Proportion of <math>N_y</math>, <math>N_{My}</math>, <math>N_{exist,y}</math> and <math>M_y</math> having access to the grid. The parameter is used to check for continued access to electricity on an annual or biennial basis using a statistically significant sample of consumers. Billing records can also be used instead of on-site checks. Since prepaid billing is applied, the CME proposes using purchase records that can indicate whether a connection is active or not. Therefore, no sampling plan is included in the proposed monitoring plan.</p> <p>6. <i>Parameter <math>A_{def}</math></i></p> <p>This is the Area of land deforested in the construction of the interconnection lines. <math>A_{def}</math> is to be measured in hectares at validation. However, since the CPA is continuously implemented, this is a proposed monitoring parameter.</p> <p>In line with §32 of the applied methodology and §45 of AM0045 version 3.0, the parameter is necessary to calculate potential leakage emissions arising from construction of new transmission/distribution lines during grid extensions.</p> <p>Further, as per AMS III BB_ver02.0;</p> <p><b><i>'If the estimated leakage is within 5% of the estimated emission reductions of the project, then this leakage source may be neglected, otherwise the leakage shall be deducted from the emissions reductions.'</i></b></p> <p>And as per AM0045;</p> <p><b><i>'Leakage from deforestation is a one-time emission. If the estimated leakage from deforestation is below 1% of the project's estimated emission reductions over the first crediting period, then the leakage shall not be accounted. Otherwise the total leakage estimated will be fully deducted from the emissions reductions in the first verification period.'</i></b></p> <p>7. <i>Parameter <math>L_c</math></i></p> <p>This parameter is the carbon stock per area (above ground, below ground, soil carbon, litter and dead biomass) measured in tCO<sub>2</sub>/hectare.</p>
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	<p>In line with §32 of the applied methodology and §45 of AM0045 version 3.0, the parameter is necessary to calculate potential leakage emissions arising from construction of new transmission/distribution lines during grid extensions.</p> <p>Further, as per AMS III BB_ver02.0;</p> <p><b><i>'If the estimated leakage is within 5% of the estimated emission reductions of the project, then this leakage source may be neglected, otherwise the leakage shall be deducted from the emissions reductions.'</i></b></p> <p>And as per AM0045;</p> <p><b><i>'Leakage from deforestation is a one-time emission. If the estimated leakage from deforestation is below 1% of the project's estimated emission reductions over the first crediting period, then the leakage shall not be accounted. Otherwise the total leakage estimated will be fully deducted from the emissions reductions in the first verification period.'</i></b></p> <p>No other leakage sources are to be considered</p> <p><b>Assessment of monitoring system</b></p> <p>The auditor has assessed the monitoring plan against the applied monitoring methodology and the CDM project standard for programmes of Activities v2.0.</p> <p>The CME has proposed a sufficient monitoring system to ensure the emission reductions can be calculated ex-post with accuracy and without material misstatements or uncertainties.</p> <p><b>Conclusion</b></p> <p>The validation team has assessed the monitoring plan against the requirements of the applied methodology and the relevant provisions of the CDM PoA Standard, version 2.0:</p> <p>It can be concluded as follows: -</p> <ol style="list-style-type: none"> <li>1. The description of the monitoring plan is in compliance with the provisions of the applied methodology, the CDM project standard for programmes of Activities;</li> <li>2. The monitoring arrangements described in the monitoring plan are feasible within the project design;</li> <li>3. The means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures, are sufficient to ensure that GHG emission reductions achieved by/resulting from corresponding CPAs can be reported ex-post and verified;</li> <li>4. Project connections shall be marked for clear, unique identification using GPS coordinates or meter numbers that are unique for each connection. The billing platform</li> </ol>
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		for each CPA does not allow for duplicate meter records.
		5. The structure and organisation indicates that the coordinating/managing entity's has the ability to implement the monitoring plan
	<b>Assessment of post registration change – Inclusion of a MP</b>	
	<b>MM compliance:</b> Please check in case of changes to the registered MP, whether they are in compliance with the MM.	The changes are in full compliance with the applied monitoring methodology
	<b>Later version of MM:</b> Please check in cases where compliance with a later version of the MM is demonstrated that the conservativeness of the monitoring and verification is not affected.	Not applicable.  The methodology version applied during the registration of the PoA and CPA-0002 is the same and is the latest (version 02.0). The inclusion of the delayed monitoring plan does not affect the conservativeness of the ex-ante emission reduction calculations.
	<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.	Not applicable.  This is an inclusion of a monitoring plan and not a deviation
<b>Conservative-ness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.	Not applicable as this is a proposed monitoring plan for CPA 2. Some default factors prescribed by the methodology have been applied	
<b>Appendix 2 PS:</b> Check if the changes fall under one of the scenarios of Appendix 2 of the PS for PoA.	The changes do not fall under the scenarios of Appendix 2 of the CDM PoA standard version 02.0. As per §228 of the same document, post-registration changes to an included CDM CPA do not require approval by the Board but shall be notified to the secretariat.	
<b>Findings</b>	CAR 01	
<b>Conclusion</b>	Based on the above stated the inclusion of a monitoring plan to the registered project activity is in accordance with applicable validation requirements related to the inclusion of a monitoring plan to a registered project activity in the VVS for PoA.	
	<b>Revised PoA DD and/or CPA DD</b>	
	<b>Rev. of PoA DD and/or CPA DD:</b> Check whether the changes have been fully addressed in a revised PoA DD and/or CPA DD.	<input checked="" type="checkbox"/> The changes have correctly been reflected in the revised PoA DD and/or CPA DD. <input type="checkbox"/> A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes). <input checked="" type="checkbox"/> The revised PoA DD and/or CPA DD has been forwarded in (i) track-change and (ii) clean version.
	<b>Prior Approval</b>	
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/> The post registration change requires prior approval <input checked="" type="checkbox"/> The post registration change does not require prior approval <input checked="" type="checkbox"/> The post registration change is hereby notified to the

**D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools**

<b>Means of validation</b>	Type of change(s):	<input type="checkbox"/>	Permanent Change from Monitoring Plan
		<input checked="" type="checkbox"/>	Permanent deviation of monitoring from applied methodologies
		<input type="checkbox"/>	Permanent Change from the applied methodologies
		<input type="checkbox"/>	Permanent Change from standardized baselines
		<input type="checkbox"/>	Permanent Change from other applied standards or tools
<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the start date of the change	28/08/2015	<b>End Date:</b> Please provide the end date of the change, if applicable
	<b>Description:</b> Please give a detailed description of the change(s)	<p>The following permanent deviation is provided here as the same has been applied to the related PoA-DD and notified accordingly for the respective CPA: As per §34 of the applied methodology AMS.III-BB version 2.0, project emissions are emissions associated with the generation of electricity supplied to the project activity end use facilities. Calculated as follows:-</p> $PE_y = (ED_{tot,y} * EF_{grid,CO2,y}) * (1 - TL_{grid})$ <p>Where</p> <p><math>PE_{y,y}</math> Project emissions from electricity generation in year y (tCO<sub>2</sub>)</p> <p><math>ED_{tot,y}</math> Total electricity delivered to all new and existing consumers (MWh)</p> <p><math>EF_{grid,CO2,y}</math> Emission factor of the project electricity system in year y (tCO<sub>2</sub>/MWh)</p> <p><math>TL_{grid}</math> Transmission and distribution losses in the project activity electricity system supplying the project activity (%)</p> <p><i>“If the project activity involves connection to an existing national or regional grid the emissions factor is determined by ranking all the power units in the national or regional grid in the decreasing order of GHG intensity. The emissions factor is the weighted average emissions factor of the top 10 per cent most GHG intensive plants in the grid<sup>1</sup>. The emissions factors of the plants shall be calculated based on default plant efficiency provided in the “Tool to calculate the emission factor for an electricity system”.</i></p>	

<sup>1</sup> If the grid associated with the project imports electricity from other countries the emission factor shall be the higher among the following two: (i) the weighted average emissions factor of the top 10% most GHG intensive plants in the grid of the host country; and (ii) the weighted average emissions factor of the top 10% most GHG intensive plants in the grid of the exporting country.

	<p>However, the CDM methodology AMS.III-BL version 1.0 prescribes two options in calculating the project emissions, in Table 5.0 for projects involving grid extension:</p> <ol style="list-style-type: none"> <li>1. Emissions factor based on: <ul style="list-style-type: none"> <li>- top 10 per cent high emission intensive plants in the grid or default emission factor based on the highest carbon intensive fuel in the grid for projects implemented in LDCs/SIDs/Underrepresented countries</li> </ul> </li> <li>2. Project emissions is zero if: <ul style="list-style-type: none"> <li>- Grid extension is directly associated with the renewable energy plant</li> <li>- Fuel mix in grid is greater than 95% renewable and projects are located in LDCs/SIDs/Underrepresented countries</li> </ul> </li> </ol> <p>The Republic of Uganda is classified as an LDC country by the United Nations<sup>2</sup>. Therefore, this approach is applicable to Uganda.</p> <p>Given the challenges of determining the grid emission factors from all the three countries connected to the Uganda electricity system (Uganda imports electricity from Kenya and Rwanda)<sup>3</sup>, a permanent deviation from AMS.III-BB version 2.0, to AMS.III-BL version 1.0 in the calculation of <math>EF_{grid,CO2,y}</math> is proposed in line with Option 3 of §46 of AMS.III-BL version 1.0. This methodology is also applicable for this type of project as per §5 e) of AMS.III-BL version 1.0.</p> <p><b>Option 3</b></p> <p><i>“If the projects are implemented in least developed countries (LDCs) or small island developing States (SIDS) or in countries that had 10 or fewer registered CDM project activities as of 31 December 2010 (namely, underrepresented countries (URCs)), the following alternatives are available:</i></p> <p><i>(i) The emission factor of zero can be applied if the share of renewable energy mix is greater than 95% based on immediate three years average historical data</i></p> <p><i>(ii) The emissions factor is determined by the most GHG intensive fuel used in the national or regional grid and the default technology efficiency (lower range) as provided in the “Tool to calculate the emission factor for an electricity system”. The default emission factors prescribed in the Table 6 below should be used.</i></p> <p><i>Example for using default emission factor:</i></p> <p><i>a. If a grid has a fuel mix of natural gas, oil and hydro, take the default emission factor of oil;</i></p> <p><i>b. if a grid has a fuel mix of several oil and several coal fired power plants, take the default emission factor of coal.”</i></p> <p><b>Table 6: Default emission factors for determining</b></p>
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<sup>2</sup> <https://www.un.org/development/desa/dpad/least-developed-country-category/ldcs-at-a-glance.html>

<sup>3</sup> <https://www.era.or.ug/index.php/stats/transmission-stats>

	<b>project emissions</b> <table border="1"> <thead> <tr> <th>Fuel</th><th>Fuel EF from IPCC (kg/TJ)</th><th>Efficiency (%)</th><th>Default grid EF (tCO<sub>2</sub>/MWh)</th></tr> </thead> <tbody> <tr> <td>Coal</td><td>101,000</td><td>36.5</td><td>1.0</td></tr> <tr> <td>Natural Gas</td><td>58,300</td><td>30</td><td>0.7</td></tr> <tr> <td>Oil</td><td>74,800</td><td>30</td><td>0.9</td></tr> </tbody> </table> <p>Therefore, in determining <math>EF_{grid,CO_2,y}</math> the CME proposes alternatives i) or ii) under Option 3 of AMS.III-BL version 1.0 for the generic CPA Type A in the registered PoA. Sections I.7.1 and I.7.3 have been revised accordingly.</p>			Fuel	Fuel EF from IPCC (kg/TJ)	Efficiency (%)	Default grid EF (tCO <sub>2</sub> /MWh)	Coal	101,000	36.5	1.0	Natural Gas	58,300	30	0.7	Oil	74,800	30	0.9
	Fuel	Fuel EF from IPCC (kg/TJ)	Efficiency (%)	Default grid EF (tCO <sub>2</sub> /MWh)															
	Coal	101,000	36.5	1.0															
	Natural Gas	58,300	30	0.7															
	Oil	74,800	30	0.9															
	<b>Assessment of post registration change – Permanent changes from MP or MM</b>																		
	<b>MM compliance:</b> Please check in case of changes to the registered MP, whether they are in compliance with the MM.	The changes in the monitoring plan complies with the PoA registered methodology AMS-III.BL ver 1 §37 and 46. Besides the approach taken is provided in another registered methodology and at time of PoA design AMS-III-BL was not available but AMS-III-BB.																	
<b>Later version of MM:</b> Please check in cases where compliance with a later version of the MM is demonstrated that the conservativeness of the monitoring and verification is not affected.	Not applicable																		
<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.	The deviation to AMS-III-BL version 1.0 is not likely to lead to a reduction in the accuracy of emission reductions. The same equation prescribed in AMS-III-BB version 2.0 will still be applied. Besides the approach taken is provided in another registered methodology and at time of PoA design AMS-III-BL was not available but AMS-III-BB.																		
<b>Conservativeness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.	CDM approved default emission factors under Table 6 of the AMS-III-BL version 1.0 may be applied and will not result in overestimation of emission reductions																		
<b>Appendix 2 PS:</b> Check if the changes fall under one of the scenarios of Appendix 2 of the PS for PoA.	The changes do not fall under the scenarios of Appendix 2 of the CDM PoA standard version 02.0. As per §228 of the same document, post-registration changes to an included CDM CPA do not require approval by the Board but shall be notified to the secretariat.																		
<b>Findings</b>																			
<b>Conclusion</b>	Based on the above stated the permanent changes from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline are in accordance with applicable validation requirements related to the permanent changes from the registered monitoring plan, monitoring methodology and/or standardized baseline in the VVS for PoA.																		
<b>Revised PDD</b> <table border="1"> <tr> <td> <b>Rev. of PDD:</b>            Check whether the changes have been         </td> <td> <input checked="checked" type="checkbox"/> </td> <td colspan="2">           The changes have correctly been reflected in the revised PDD.         </td> </tr> <tr> <td></td> <td> <input type="checkbox"/> </td> <td colspan="2">           A revision of the PDD is not required (in case of         </td> </tr> </table>				<b>Rev. of PDD:</b> Check whether the changes have been	<input checked="checked" type="checkbox"/>	The changes have correctly been reflected in the revised PDD.			<input type="checkbox"/>	A revision of the PDD is not required (in case of									
<b>Rev. of PDD:</b> Check whether the changes have been	<input checked="checked" type="checkbox"/>	The changes have correctly been reflected in the revised PDD.																	
	<input type="checkbox"/>	A revision of the PDD is not required (in case of																	

	fully addressed in a revised PDD.		temp. changes).
		<input checked="" type="checkbox"/>	The revised PDD has been forwarded in (i) track-change and (ii) clean version.
	<b>Prior Approval</b>		
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval
		<input checked="" type="checkbox"/>	The post registration change does not require prior approval
	<input checked="" type="checkbox"/>	The post registration change is hereby notified to the secretariat in line with PS §228	

**D.7. Changes to the project design- N/A**

<b>Means of validation</b>	Type of change(s):	<input type="checkbox"/>	<i>Changes to the programme design</i>	
		<input type="checkbox"/>	<i>Changes to the project design</i>	
	<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the start date of the change	-	<b>End Date:</b> Please provide the end date of the change, if applicable	-
	<b>Description:</b> Please give a detailed description of the change(s)			
	<b>Applicability and application of the Approved Baseline Methodology</b>			
	<b>Description:</b> Please give a detailed description on how the changes affect the applicability and application of the approved Baseline Methodology. Check if the actual changes would adversely affect the conclusions during validation.			
	<b>Additionality assessment</b>			
	<b>Description:</b> Please give a detailed description re-assessment of additionality, Check whether the actual changes would adversely affect the conclusions during validation. If required please make use of the assessment tables in the annex.			
	<b>Scale of the Project activity</b>			
<b>Description:</b> Please give a detailed regarding the effect of the changes on the scale of the PoA (i.e. LSC or SSC).				
<b>Revised Specific CPA-DDs</b>				
<b>Rev.</b>	<b>of</b>	<input type="checkbox"/>		

	<b>Specific CPA DDs:</b> Check whether the changes have been fully addressed in a revised PoA DD. In this context pl. refer to <ul style="list-style-type: none"> <li>- Changes to the project boundary and GHG Sources</li> <li>- Changes to the baseline scenario.</li> <li>- Changes to the estimation of emission reductions of a generic CPA</li> <li>- Effects with regards to compliance with the MP and level of accuracy and completeness of monitoring.</li> </ul>		
<b>Findings</b>	-		
<b>Conclusion</b>	<b>Traceability:</b> Check if the PPs have provided a revised PoA DD and/or CPA DD in both clean and track-change version.	<input type="checkbox"/>	The revised PoA DD has been forwarded in (i) track-change and (ii) clean version.
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval.
	<input type="checkbox"/>	The post registration change does not require prior approval	

#### D.8. Changes specific to afforestation and reforestation project activities

<b>Means of validation</b>	N/A
<b>Findings</b>	
<b>Conclusion</b>	

#### SECTION E. Internal quality control

Before submission of the final assessment report a technical review is carried out. The technical reviewer is a competent GHG auditor being appointed for the scope this project 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 assessment opinion as prepared by the validation team leader may be confirmed or revised. Furthermore reporting improvements might be achieved.

#### SECTION F. Validation opinion

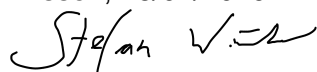
The below listed changes have occurred after the registration of the project / PoA.

Type of Change occurred	Total No. of changes	No. of changes which require prior approval
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<input type="checkbox"/>	Temporary deviations from the MP	-	-
<input type="checkbox"/>	Temporary deviations from the MM	-	-
<input checked="" type="checkbox"/>	Corrections that do not affect the project	3	-
<input type="checkbox"/>	Change to the start date of the crediting p.	-	-
<input type="checkbox"/>	Permanent changes from the MP	-	-
<input checked="" type="checkbox"/>	Permanent changes/deviation from the MM	1	-
<input type="checkbox"/>	Design changes to the programmed or project	-	-
<input type="checkbox"/>	Change of coordinating/managing entity	-	-
<input checked="" type="checkbox"/>	Inclusion of monitoring plan	1	-
<input type="checkbox"/>	Changes specific to afforestation and reforestation activities	-	-

The post registration change is hereby notified to the secretariat in line with PS §228

Essen, 28/01/2019



Stefan Winter

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
CL	Clarification Request
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
CP	Certification Program
CPA	Component Project Activities
DNA	Designated National Authority
EB	CDM Executive Board
ER	Emission Reduction
ERA	Electricity Regulatory Authority of Uganda
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG	Greenhouse gas(es)
MP	Monitoring Plan
MR	Monitoring Report
PA	Project activity
PCP	Project Cycle Procedure
PDD	Project Design Document
PoA	Programme of Activities
PP	Project Participant
PRC	Post Registration Changes
PS	Project Standard
QC/QA	Quality control/Quality assurance
REA	Rural Electrification Agency Uganda
SP	Service Provider (CPA Implementer)
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VT	Validation Team/Verification Team
VVS	Validation and Verification Standard
XLS	Emission Reduction Calculation Spread Sheet

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



**Statement of Competence**  
Appointment 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	2020-07-27
VCS	Senior Assessor (Validation, Verification) Technical Reviewer	2020-07-27

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. 5, Date: 2017-07-20



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

**Mr. David Lubanga**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2021-10-20
VCS / ISO 14064-2	Senior Assessor Technical Reviewer	2021-10-20

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
3.1	Energy demand
13.2	Manure

251 - Rev. 7, Date: 2018-10-19

251\_201-VAN00-F20-2018-10-19\_rev7.doc

251-VAN00-F20-rev3 / 2013-10-25



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

**Mr. Kunal Rami**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2020-03-26
VCS / ISO 14064-2	Senior Assessor Technical Reviewer	2020-03-26

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
2.1	Energy distribution
3.1	Energy demand
6.1	Construction
7.1	Transport
13.1	Solid waste and wastewater

224 - Rev. 8, Date: 2018-08-31

224\_201-VAN00-F20-2018-08-31\_rev8.doc

224-VAN00-F20-rev8 / 2013-10-25

### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	CME	CPA-Design Document  “Accelerating Electrification through Grid Extension and off-grid electrification in Rural Areas of Uganda CPA 1” - version 4.0, dated 25/05/2015 - version 5.0, dated 15/12/2017 - version 6.0, dated 12/06/2018 - version 7.0, dated 15/01/2019  “Accelerating Electrification through Grid Extension and off-grid electrification in Rural Areas of Uganda CPA 2” - version 2.0, dated 20/03/2017 - version 3.0, dated 15/12/2017 - version 4.0, dated 12/06/2018 - version 5.0, dated 11/07/2018 - version 6.0, dated 15/01/2019	/CPA-DD/	CME
2.	CME	Project Design Document “Accelerating Electrification through Grid Extension and Off-Grid Electrification in Rural Areas of Uganda” version 4.0, dated 25/05/2015 version 5.0, dated 20/03/2017 version 6.0, dated 13/12/2017 version 7.0, dated 12/06/2018 version 8.0, dated 11/07/2018 version 9.0, dated 15/11/2018	/PoA-DD/	CME
3.	UNFCCC	AMS-III.BB Version 2 Electrification of Communities Through Grid Extension or Construction of New Mini-Grids	/AMS/	UNFCCC
4.	UNFCCC	CDM-CPA-DD-FORM_v8.1	/CPA-T/	UNFCCC
5.	TÜV NORD	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)	/CPM/	TÜV NORD
6.	IPCC	IPCC Good Practice Guidance & Uncertainty Management in National Greenhouse Gas Inventories, 2000 Revised 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Reference Manual	/IPCC/	
7.	UNFCCC	CDM project cycle procedure for programmes of activities (version 02.0)	/PCP/	UNFCCC
8.	UNFCCC	CDM project standard for programmes of Activities (Version 02.0)	/PS/	UNFCCC
9.	UNFCCC	CDM validation and verification standard for Project Activities (Version 02.0)	/VVS/	UNFCCC
10.	UNFCCC	Kyoto Protocol (1997)	/KP/	UNFCCC
11.	UNFCCC	CDM Glossary of Terms, version 9.1	/GT/	UNFCCC
12.	UNEP Riso Centre	<a href="http://www.cd4cdm.org">www.cd4cdm.org</a>	/cd4cdm/	UNEP
13.	IPCC publications	<a href="http://www.ipcc-nggip.iges.or.jp">www.ipcc-nggip.iges.or.jp</a>	/ipcc/	IPCC
14.	UNFCCC	<a href="http://cdm.unfccc.int">http://cdm.unfccc.int</a>	/unfccc/	UNFCCC

15.	ERA	<ul style="list-style-type: none"> <li>The Electricity (Safety Code) Regulations 2003;</li> <li>The Electricity (Quality of Service Code) Regulations, 2003; and</li> <li>The Electricity (Installation Permits) Regulations, 2003</li> </ul>	/LAW/	ERA
16.	CME	Training documents by CME on CDM and PoA related issues -Attendance sheets -Training content	/TRAIN/	/CME/
17.	SPs	Sample connection contracts/Prepayment Meter installation Data Capture Form with households by each of the Service Providers	/CC/	SPs
18.	SPs	Installation work orders for technicians to install meter	/WO/	SPs
19.	UETCL	Electricity Invoice by PACMECS on purchased electricity from Uganda Electricity Transmission Company Ltd.	/INV/	SP
20.	CME	Emission reduction worksheet for CPA 1 and CPA2	/ER/	CME
21.	Bureau Veritas Certification Holding SAS	Validation report on Programme of Activities titled “Accelerating Electrification through Grid Extension and Off-Grid Electrification in Rural Areas of Uganda”, version 03, dated 04/08/2015 by Bureau Veritas Certification Holding SAS	/PoA-VAL/	
22.	Bureau Veritas Certification Holding SAS	Validation report on CPA 1 titled “Accelerating Electrification through Grid Extension and Off-Grid Electrification in Rural Areas of Uganda CPA 1”, version 03, dated 04/08/2015 by Bureau Veritas Certification Holding SAS	/CPA1-VAL/	
<b>Websites</b>				
1.	UNEP Riso Centre	<a href="http://www.cd4cdm.org">www.cd4cdm.org</a>	/cd4cdm/	UNEP
2.	IPCC publications	<a href="http://www.ipcc-nggip.iges.or.jp">www.ipcc-nggip.iges.or.jp</a>	/ipcc/	IPCC
3.	UNFCCC	<a href="http://cdm.unfccc.int">http://cdm.unfccc.int</a>	/unfccc/	UNFCCC
4.	ERA	<a href="https://www.era.or.ug/index.php/stats/transmission-stats">https://www.era.or.ug/index.php/stats/transmission-stats</a>	/era/	ERA

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

Table 1. CLs from this validation

CL ID	01	Section no.	B, Eligibility criteria	Date: 29/05/2018
<b>Description of CL</b>				
Section B and eligibility criteria:				
Clarification is requested w.r.t. whether usage of “meter number” as unique identification is an editorial issue and already approved or if this is to be considered under this PRC.				
<b>CME response (1<sup>st</sup> round)</b>				Date: 12/06/2018
The usage of “meter number” as a unique identification is a correction to be considered under this PRC.				
<b>Documentation provided by CME</b>				

<input checked="" type="checkbox"/> Changes in the PoA-DD	Section(s): B	New version No.: 7.0
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Other:		
<b>DOE assessment (1<sup>st</sup> round)</b>		<b>Date:</b> 25/06/2018
Meter number can be considered unique identification since one meter can only be assigned to one consumer. Furthermore, it was determined onsite that some SPs initially had difficulty in recording accurate or completing all GPS co-ordinates before the new application was implemented. The correction is reflected in all sections of the Type A generic CPA-DD.		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed	

**Table 2. CARs from this validation**

<b>CAR ID</b>	<b>01</b>	<b>Section no.</b>	<b>I.6.1</b>	<b>Date:</b> 29/05/2018
<b>Description of CAR</b>				
Following issues w.r.t. Type A CPA Section I.6.1 of the generic CPA-DD have been identified:				
1. Section refers to "For a generic CPA, Option 1 under paragraph 8 of the methodology is used to determine baseline emissions." However para 8 of the corresponding methodology does not provide any options. Therefore revision requested.  2. Besides it is unclear why from Option 1 under Para 8 $BE_{exist,y}$ is equal to zero. Please clarify and revise accordingly.				
<b>CME response (1<sup>st</sup> round)</b>				<b>Date:</b> 12/06/2018
Section I.6.1 has been revised to explain that as per paragraph 21 of the methodology, $BE_{exist,y}$ is equal to 0 for the CPA Type.				
<b>Documentation provided by CME</b>				
<input checked="" type="checkbox"/> Changes in the PoA-DD	Section(s): I.6.1		New version No.: 7.0	
<input type="checkbox"/> Changes in XLS	Worksheet(s):		New version No.:	
<input type="checkbox"/> Other:				
<b>DOE assessment (1<sup>st</sup> round)</b>				<b>Date:</b> 25/06/2018
1. Corrections have been made to make reference to paragraph 21 of the applied methodology in the determination of baseline emissions for I-M and Type II consumers.  2. $BE_{exist,y}$ is equal to zero as no existing customers with prior connections to the grid are part of the proposed CPA				
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

**Table 3. FARs from this validation**

<b>FAR ID</b>	<b>N/A</b>	<b>Section no.</b>		<b>Date:</b> DD/MM/YYYY
<b>Description of FAR</b>				
<b>CME response</b>				<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by CME</b>				
<b>DOE assessment</b>				<b>Date:</b> DD/MM/YYYY

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**Document information**

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	29 December 2017	Initial publication.
Decision Class: Regulatory		
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Keywords: post-registration change, component project activity, validation report		