

VALIDATION REPORT

ICIMI Limited


Nigeria Energy Efficiency CFL Lighting Scheme -
ICIMI-PoA – CPA 1 – Ikorodu-Ijede

Energy Efficiency of Nigeria's Residential Lighting Stock
by Distributing up to 40 Million Compact Fluorescent
Lamps (CFLs) to Residential Households Connected to
the National Grid

Report No CCL00115/BLN/24012012/CPA-1
Revision No 01

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CDM VALIDATION REPORT NO CCL00115/BLN/24012012

CPA Title: Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede		Country: Nigeria		Estimated CERs (tCO ₂ e): 28,892 Annual Estimated average	
Managing Entity: Icimi Ltd. 1, Ropemaker street City Point ,London		CPA Implementer: Icimi Nigeria Limited		Project Participant: Icimi Nigeria Limited	
Report No.:				Date of this report: 30/12/2012	
Technical Reviewer: Vikash Kumar Singh				Date of approval: 31/12/2012	
Approved by (Final Report): Priyesh Ramlall 				Date of approval: 31/12/2012	
GPS coordinates of the CPA(Geographical boundary):			Ikorodu: 6° 35' 60.00"N 3° 30' 0.00"E Ijede: 6° 34' 0.00"N 3° 36' 0.00"E		
Organisational Unit: Carbon Check (Pty) Ltd					
Report Distribution: <input type="checkbox"/> Unrestricted Distribution <input type="checkbox"/> Limited Distribution <input checked="" type="checkbox"/> No Distribution (without permission from the Client or responsible organisational unit)					
Methodology					
Number: AMS II J		AMS-II.J – Demand-side activities for efficient lighting technologies,		Scale:	
Version: 04				Small <input checked="" type="checkbox"/> Large <input type="checkbox"/>	
				SS(s): 3 TA (s): 3.1	
<p>Carbon Check Pty Ltd., (CCL) is commissioned by “Icimi Ltd” (the CME) to perform the validation of the CPA-1 Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede in to the Program of activities “Energy Efficiency of Nigeria’s Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid”, with regard to the relevant requirements for CDM programme of activities.</p> <p>Summary of the CPA Validation and Opinion:</p> <p><input checked="" type="checkbox"/> The review of the project design documentation and the subsequent follow-up interviews have provided CCL with sufficient evidence for the determination of the CPA fulfillment of all stated criteria. In our opinion, the CPA meets all relevant UNFCCC requirements for the CDM. Therefore, CCL recommends the CPA for registration by the CDM Executive Board.</p> <p><input type="checkbox"/> The reviews of the project design documentation and the subsequent follow-up interviews have not provided CCL with sufficient evidence for the determination of the PoA’s fulfillment of all stated criteria. Therefore, CCL will not recommend the PoA for registration by the CDM Executive Board and will inform the project participants and the CDM Executive Board of this decision.</p>					

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Validation Team		Role					
Full Name	Appointed for Sectoral scopes (Technical Areas)	Team Leader	Trainee Auditor	Local Expert	Team Member (Auditor)	Technical Expert	Technical Reviewer
Sunil Kathuria	1.1,1.2,2.1 & 4.1	X				X	
Ravi Shankar	1.2,,2.1,2.2,3.1,13.1						
Adam Simcock				X			
Vikash Kumar	1.2,3.1,13.1						X
Validation Phase				Validation Status			
<input checked="" type="checkbox"/> Desk Review				<input checked="" type="checkbox"/> Corrective Actions / Clarifications requested			
<input checked="" type="checkbox"/> Follow up interviews				<input checked="" type="checkbox"/> Full approval and submission for registration			
<input checked="" type="checkbox"/> Resolution of outstanding issues				<input type="checkbox"/> Rejected			

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Executive Summary – Validation Opinion

The validation team of Carbon Check (Pty) Ltd., performed the validation of the **CPA** Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede to the PoA titled “Energy Efficiency of Nigeria’s Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid” in Nigeria with regard to the relevant requirements for CDM activities.

Standard auditing techniques have been used for the validation of the CPA. An analysis, as provided by the applied methodology, demonstrates that the proposed CPA is not a likely baseline scenario. Emission reductions attributable to the CPA are additional to any that would occur in the absence of the project activity. Given that the CPA is implemented as designed, the project is likely to achieve the estimated amount of emission reductions as specified within the CPA-DD_{/01/}.

The validation is based on the information made available to Carbon Check (Pty) Ltd., as well as the engagement conditions detailed in this report. The validation has been performed following the VVM requirements.

The validation was executed in the following steps so far:

- Receipt of PoA-DD version 10 dated 24/04/2012_{/01/} g-CPA-DD/02/ (generic) and real case CPA- DD/05/ (without version number and dated Nil) for global stakeholder comments.
- Global stakeholder comment process (26/04/2012 to 25/05/2012)
- On-site visit with stakeholder interviews (01/09/2012 to 03/09/2012)
- Issue of checklist with corrective action requests (CARs) and clarification requests (CLs) and the draft validation report and protocol
- Desk review of revised DDs applying AMS-IIJ (version 4)_{/B04/}
- Review of responses for CARs/CLs and Final POA DD version 05 dated 28/12/2012
- Issue of the final validation report and protocol

During the course of validation a total of 02 Corrective Action Requests (CARs) and 04 Clarification Requests (CLs) and 01 FAR were identified on webhosted CPA-DD_{/01/}. Upon evaluation of responses provided by the Project Participant (CME) all the identified issues in CAR & CL were closed successfully. FAR-01 has been raised; the DOE-Verification will review the test certificates during the first verification.

The single purpose of this report is its use during the registration process as part of the CDM project cycle. In the opinion of Carbon Check (Pty) Ltd., the CPA meets all relevant UNFCCC requirements for the CDM if the underlying assumptions do not change. Carbon Check (Pty) Ltd. thus recommends the CPA to be registered with the UNFCCC._{/B06-O/}

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Abbreviation list

BE	Baseline Emissions
CAR	Corrective Action Request
CC	Cross Check
CCL	Carbon Check (Pty) Ltd
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CER(s)	Certified Emission Reduction(s)
CH ₄	Methane
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CME	Coordinating/managing entity and participants of PoA
CPA	CDM Programme Activity
CPA-DD	CDM Programme Activity design document
DR	Document Review
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
EIA	Environmental Impact assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GWP	Global Warming Potential
I	Interview or any follow up action
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval
MoV	Means of Verification
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-governmental Organization
ODA	Official Development Assistance
PE	Project Emission
PoA	Programme of Activities
PoA-DD	Programme of Activities design document
PP(s)	Project Participant(s)
Ref.	Document Reference
SD	Sustainable Development
SS(s)	Sectoral Scope(s)
UNFCCC	United Nations Framework Convention on Climate Change
VVM	Validation and Verification Manual

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Appendix A: Validation Protocol

Appendix B: Certificate of Competence

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1 INTRODUCTION

Icimi Ltd. (hereafter referred as “CME”) has commissioned the DOE, Carbon Check (Pty) Ltd., to assess the information in the CDM-CPA-DD for the CPA titled “CPA01 “Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede ” (hereafter called “the CPA”) against the requirements for including CPAs to the PoA “Energy Efficiency of Nigeria’s Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid” and further documentation requirements for including CPA to a PoA.

In the web hosted version the CPA description was very similar to the description of the POA, hence CAR-1 was raised and the name of the CPA has been revised to have a clear distinction with the POA

This report summarizes the findings of the validation of the CDM Programme Activity Design Document (CPA-DD), performed on the basis of UNFCCC criteria for the PoA’s under the CDM, as well as criteria given to provide for consistent programme operations, monitoring and reporting. The term “UNFCCC criteria” refers to Article 12 of the Kyoto Protocol, the CDM modalities and procedures, the modalities and procedures for CDM project /programme activities, and the subsequent decisions by the COP/MOP and CDM Executive Board. In addition to these criteria, host country criteria are also taken into account.

1.1 Objective

The assessment of a CPA requesting to be included in a PoA shall ensure that all the requirements determined in the PoA are met. The assessment was performed on the basis of the eligibility and additionality criteria established in the PoA and the UNFCCC criteria for including CPAs to programme of activities under the Clean Development Mechanism (CDM), as well as criteria given to provide for consistent project operations, monitoring and reporting according to. AMS-II.J – Demand-side activities for efficient lighting technologies,

1.2 Scope

The validation scope is defined as an independent and objective review by a Designated Operational Entity (DOE) of the specific CDM-CPA-DD to be included in the PoA. The DOE shall scrutinize the information in the CDM-CPA-DD to assess compliance with the eligibility criteria and criteria for demonstrating additionality established by the PoA, to check correctly application of AMS-II.J and to check compliance with documentation requirements for CPAs.

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

2 METHODOLOGY

The validation consists of the following four phases:

- Publication of the programme design documents (PoA-DD, CPA-DD template and completed CPA-DD) in UNFCCC for global stakeholder consultation;
- A desk review of the PoA-DD, CPA-DD template and the associated real case CPA-DD;
- On-site visit and follow-up interviews with programme stakeholders; and
- The resolution of outstanding issues and the issuance of the final validation report and opinion.

The following sections outline each step in more detail.

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2.1 Document Review

The following table lists the documentation that was reviewed during the validation.

/01/	<ul style="list-style-type: none"> • CDM-SC-POA-DD, “Energy Efficiency of Nigeria’s Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid” version 10 of 24/04/2012/ & Final version 14 dated 28.12.2012 project activity • CDM-SC-CPA DD (Generic) version dated nil & Final Version dated CDM-SC-CPA-DD Energy Efficiency of Nigeria’s Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid-Ikorodu-Ijede-CPA-1 & Final version 5 dated 28.12.2012 having a tile “Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-I jede
/02/	Spread sheet EF & ER Calculation.xls version 01 of 24/03/2012 and Final Version dated 12/12/2012/
/03/	Approval of Feasibility study dated 06/06/2012 by Icimi Ltd.
/04/	Letter of Approval to ICIMI LTD, London -Federal Ministry of Environment, Nigeria, dated 10/10/2011
/05/	Letter of Approval to ICIMI LTD, London –Environment Agency ,UK , dated 23/11/2012
/06/	Confirmation email by UK DNA on issue of LOA dated 03/12/2012
/07/	Internal decision on launching of POA dated 24/05/2011.
/08/	POA Implementation Layout Dated 27/09/2012, Icimi LTD
/09/	CME Management Manual dated 27/11/2012
/10/	Project implementation plan - Icimil LTD
/11/	CER purchase agreement between Icimi Limited and Eneco Energy BV, July 2012
/12/	Nigerian Annual Grid Reports 2004-2008 National Control Centre Osogbo
/13/	Certificate of Incorporation Icimi Limited-Companies House Cardiff dated 21.12.2010
/14/	Memorandum of Understanding between Icimi Limited & Philips Electronic Hong kong Limited dated 21/09/2012
/15/	Template for investment analysis
/16/	Human capacity building in energy efficiency and renewable energy training, Icimi Ltd.
/17/	CME Monitoring Plan Icimi Limited dated 27/11/2012
/18/	Joint press release on agreement dated 20/07/2012
/19/	Icimi Ltd- Gold standard local stakeholders report dated 05.12.2011
/20/	Icimi Ltd- Gold standard Design Consultation report dated 05.12.2011
/21/	Icimi Ltd-Invitation tracking table POA & Local stake Holders Consultation
/22//	List & contacts of invitees for Gold Standard stake holder Consultation for 05.01.2012 meeting
/23//	Icimi Ltd- List of participants attending the stake holder dated 05.12.2011
/24/	Non technical summary in local dialect,- Icimi Ltd, 12/11
/25/	Participants Evaluation Forms- Stake holder participants 05.01.2012
/26/	Participation of stakeholder list 05.01.2012
/27/	Icimi Ltd- News paper Clipping inviting for stake holder consultation. 30.12.2011
/28/	Philips CFL Data Sheet
/29/	Prior consideration form dated 31/05/2012
/30/	Modalities of communication
/31/	Confirmation of non receipt of ODA funds dated 25/04/2012 Icimi.
/32/	Spread sheet of ER Calculation & Investment Analysis “ER Calculation & EI .xls version 01 of 24/03/2012 and Final Version dated 12/12/2012/
/33/	Confirmation letter from Icimi Nigeria to participate in the POA
/34/	Report on Technical review & inclusion of CPA in the POA dated 28/08/2012 signed by representatives of POA-CME & CPA-1 implementer
/35/	Certificate of incorporation of Icimi Nigeria Ltd dated 23/07/2012, issued by Corporate Affairs Commission Federal republic of Nigeria .
/36/	CPA Project Plan dated 02/12/2012 for CPA-1
/37/	CME Monitoring Plan dated 22/10/2012, Icimi Limited.

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/38/	Estimate of CFL pricing given by Philips
Background investigation and other referred documents/websites:	
Reference No.	Documents
/B01/	CDM Executive Board: Validation and Verification Manual, version 01.2. EB 55 Annex 1 of
/B02/	CDM Executive Board: Guidelines for completing the project design document form for small-scale CDM project activities (version 01.0) EB 66, Annex. 09
/B03/	CDM Executive Board: Guidelines for completing the programme design document form for small-scale CDM programmes of activities (version 01.0) EB 66, Annex. 13
/B04/	Energy Efficiency improvement project AMS IIJ version 04, EB 54 Annex 6 dated 28.05.2010
/B05/	CDM Executive Board- "Tool to calculate emission factor for an electricity system" version 2.2
/B06/	<ul style="list-style-type: none"> a) CDM Executive Board:-Guideline for Assessment of additionality of small scale Project activity EB 68 Annex 27 b) EB 63 Annex 24 "Attachment A of Appendix B" v.8 Attachment A to Appendix B of the simplified modalities and procedures for small scale CDM activities c) PoA Specific guidelines / standards published by UNFCCC d) CDM programme of activities design document form (CDM-SSC-PoA-DD) Version 01, EB 33 e) CDM programme activity design document form (CDM-SSC-CPA-DD)Version 01,EB 33 Annex 44 f) Procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission Reductions for a programme of activities, Version 04.1, EB 55 (Annex 38) g) Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities, version 01, EB 65 (Annex 03) h) Guidelines on demonstration and prior consideration of CDM", version 04, EB 62 (Annex 13) i) Standard for sampling and surveys for CDM Project Activities and PoAs, version 03.0, EB 69 (Annex 4) j) Guidelines for sampling and surveys for CDM project activities and programme of activities, version 02.0 EB 69 (Annex 5) k) Guidelines on assessment of de-bundling for SSC project activities, Version 03, EB 54 (Annex 13) l) Guidelines on the demonstration of additionality of small-scale project activities, version 09.0, EB 68 (Annex 27) M) Procedures for modalities of communication between project participants and the executive board, version 01, EB 45 Annex 59 n) Procedures for processing and reporting on validation of CDM project activities, version 03, EB 50 Annex 48. o) UNFCCC www.unfccc.int p) CDM Executive Board: Glossary of terms, Version 07
/B07/	Nigerian Power Sector Reforms & Privatisation - Director General, Bureau of Public Enterprises Bolanle Onagoruwa http://www.sec.gov.ng/files/Bolanle%20Onagoruwa%20Presentation%20to%20DG%20SEC.pdf
/B08/	http://www.scribd.com/doc/116663883/From-Incandescent-Lamps A Report on CFL in Nigeria by E.A.Umoh
/B09/	http://www.bbc.co.uk/news/world-africa-17015873 BBC News on Africa
/B10/	http://www.ng.undp.org/energy/EE-project-document.pdf . UNDP report on CFL Project
/B11/	http://www.gvepinternational.org/en/community/resources/undp-gef-launches-energy-efficiency-project-climate-change-benefit-nigeria GVEP international Report on UNDP-CFL-Project
/B12/	http://www.credcentre.org/Publications/EE%20Survey%20Nigeria.pdf - Energy Efficiency Survey, Nigeria
/B13/	http://www.oecd.org/environment/climatechange/37671771.pdf - Barriers to Diffusion to CFL technology.

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/B4/	http://www.reuters.com/article/2012/02/13/us-nigeria-poverty-idUSTRE81C0KR20120213- A press report on Poverty in Nigeria
/B15/	http://www.worldbank.org/en/country/nigeria/overview Nigeria Overview by World Bank
/B16/	http://www.tradingeconomics.com/nigeria/inflation-cpi
/B17/	http://premiumtimesng.com/news/4305-central_bank_retains_prime_lending_rate_at_12_per_cent.html

The changes between the CPA-DD_{/1/} version 01 (real case), published for the 30 days stakeholder commenting period /01/ and the final version submitted for registration /02/ are addressed in the table 2 of the validation protocol as a part of this report.

Topic	CPA-DD – GSC/01/ Dated Nil Version nil	Final CPA-DD Version 5 dated 28./12/2012/	Assessment
PoA title	“Energy Efficiency of Nigeria’s Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid”	“Energy Efficiency of Nigeria’s Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid”	No change
CPA title	Energy Efficiency of Nigeria’s Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid – Ikorodu-Ijede – CPA 1	“Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede	A CAR was given to have a distinct name of the CPA. CAR-1 was raised in this regards
CPA Implementer	Icimi Nigeria Ltd	Icimi Nigeria Ltd	No Change
Scope	Validation of CPA	Validation of CPA	No change
Methodology / Activity	AMS IIJ version 04 _{/B04/}	AMS IIJ version 04 _{/B04/}	No change
Amount of emission reductions (tCO ₂)	258,860 t Co2e Total for crediting Period	226,164tCO ₂ e Total for crediting period	The change has happened due to change in numbers and wattage of CFL. CL-1 was raised in this regards
Real case CPA starting Date	01/12/2012	01/03/2013.	The CPA will start after the registration of the project.
CPA Location	Ikorodu-Ijede	Ikorodu-Ijede	No change

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2.2 Follow-up actions

In order to reach to a Validation Opinion a site visit along with an interview was planned for 01/09/2012 to 03/09/2012. Prior to the interview salient points to be discussed were planned. Date of interview, interviewee and points discussed are given in the following table.

	Date	Name and Role	Organization	Topic
/a/	01 -03 Sep, 2012	.Cassandra Jayesimi Managing Director	Icimi Limited	Project Planning & Management CPA planning Site Visit
/b/	01-03 Sep, 2012	Aliu Balogun Legal Consul & Country Coordinator	Icimi Nigeria Limited	Project Planning CPA planning
/c/	01 Sep, 2012	Marvin U Etsano Auditor	Icimi Nigeria Limited	Project Planning
/d/	01 Sep, 2012	Lawrence Umucthele Auditor	Icimi Nigeria Limited	Project Planning
/e/	01 Sep, 2012	S. Anipole , Chairman	Local Government of Ikorodu	Stake holder Consultation Local Government Support
/f/	01 Sep, 2012	Owolobi Hameed Supervisor for Health	Local Government of Ikorodu	Stake holder Consultation
/g/	01 Sep, 2012	Adepoju Omowuniti Administrator	Local Government of Ikorodu	Stake holder Consultation
/H/	01 Sep, 2012	Dolice	Chairman's office	Stake holder Consultation
/i/	01 Sep, 2012	Akindji hamed Driver	Local Government	Stake holder Consultation
/j/	01 Sep, 2012	Hon. Suwala Bade	Agriculture	Stake holder Consultation
/k/	01 Sep, 2012	Yusuf Personal Assistant	Chairman's office	Stake holder Consultation
/l/	01 Sep, 2012	Ajenifieja. A -Elder	Ikorodu City	Stake holder Consultation
/m/	01 Sep, 2012	Prophetess Elizabeth - Clergy	Ikorodu City	Stake holder Consultation
/n/	01 Sep, 2012	A.O.Saiyesimi -Stake holder	Ikorodu City	Stake holder Consultation

Validation Team considered the views obtained in these interviews while arriving at Validation Opinion.

2.3 Resolution of outstanding issues

The objective of this phase of the validation is to resolve any outstanding issues, which need to be clarified prior to Carbon Check's conclusion on the CPA design. In order to ensure transparency a validation protocol is customised for the programme. The protocol shows in transparent manner criteria (requirements), means of verification and the results from validating the identified criteria. The validation protocol serves the following purposes:

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

Validation Protocol, Table 1 - Requirement checklist					
Checklist Question	Ref.	MoV	Comments	Draft Conclusion	Final Conclusion
The various requirements in Table 1 are linked to checklist questions the project should meet. The checklist is organized in seven different sections.	Makes reference to documents where the answer to the checklist question or item is found.	Explain how conformance with the checklist question is investigated. Examples are document review (DR), interview or any other follow-up actions (I), cross checking (CC) with available information relating to projects, (N/A) means not applicable.	The discussion on how the conclusion is arrived at and the conclusion on the compliance with checklist question so far.	OK is used if the information and evidence provided is adequate to demonstrate compliance with CDM requirements. For CAR, CL and FAR see the definitions above.	OK is used if the information and evidence provided is adequate to demonstrate compliance with CDM requirements.

Validation Protocol, Table 2 - Resolution of Corrective Action Requests and Clarification			
Corrective action requests and/or clarification requests	Reference to Table 1	Response by project participants	Validation Conclusion
The CAR and/or CLs raised in table 2 are repeated here.	Reference to the checklist question number in Table 1 where the CAR or CL is explained.	The responses given by the project participants to address the CARs and/or CLs.	The validation team's assessment and final conclusion of the CARs and/or CLs.

Validation Protocol, Table 3 - Forward Action Requests		
Forward action request	Reference to Table 2	Response by project participants Validation Conclusion
The FAR raised in table 2 is repeated here.	Reference to the checklist question number in Table 1 where the FAR is explained.	Response by the project participants on how forward action request will be addressed prior to first verification.

2.4 Internal quality control

Before the assessment begins, members of the team covering the technical area(s), sectoral scope(s) and relevant host country experience for evaluating the CDM PoA/CPA are appointed. The validation report including the validation findings underwent a technical review. A technical reviewer qualified in accordance with Carbon Check's qualification scheme for CDM validation and verification performed the technical review.

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2.5 Validation team and the technical reviewer(s)

The validation team and the technical reviewers consist of the following personnel:

Validation Team		Type of Involvement						
Full Name	Appointed for Sectoral scopes (Technical Areas)	Supervision of work	Desk review	Site visit & Interview	Report & protocol writing	Technical Expert Input	Reporting support	Technical Reviewer
Sunil Kathuria	1.1,1.2,2.1 & 4.1	X	X	X	X	X	X	
Ravi Shankar	1.2,,2.1,2.2,3.1,13.1			X				
Adam Simcock	Local Expert						X	
Vikash Kumar Singh	1.2,3.1,13.1							X

3 VALIDATION SUMMARY

3.1 CPA Design Document

Carbon Check hereby confirms that the CPA-DD is compliant with relevant form and guidance as provided by the CPA-DD template /B06-e/ for the POA and UNFCCC requirements under the PoA. CCL considers that the guidelines for the completion of the CPA documents in their most recent version have been followed. The Managing Entity and the CPA Implementer/s provided relevant information in the applicable CPA-DD sections ,

3.2 CPA Description

The goal of the SSC-CPA is to replace incandescent light bulbs (ICLs) with quality long life compact fluorescent lamps, henceforth referred to as CFLs, by distributing/ installing approximately 745,421 CFLs at grid connected residential households at Ikorodu-Ijede, Lagos State, Nigeria.

The proposed CPA “Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede” (hereafter referred to as the “The CPA”) is developed by “Icimi Nigeria Ltd.”, (hereafter referred to as “CPA implementer”). Will reduce greenhouse gas (GHG) emissions by replacing existing and predominant use of Incandescent lamps with installation of Compact Fluorescent Lamps (CFL) lamps in Nigeria. The proposed CPA seeks to promote energy efficiency in Nigeria by replacing incandescent light bulbs used in Nigeria. The CPA geo-coordinates have been verified against the publically available geo-coordinates.

The target group distribute the project lamps CFLs to grid connected residential households The baseline scenario involves the continuation of the current practise in Nigeria whereby households will continue to use conventional and inefficient incandescent light bulbs. Baseline literature^{/B12/ /B13//B14/}, provides a view of prevalent conditions in Nigeria.

Project lamps in the CPA shall consist of New integrated self-ballasted compact fluorescent lamps (CFLs)^{/28/} to replace incandescent lamps in grid connected households in Nigeria. The implementation framework of the CPA i can distribute CFLs and replace used incandescent light bulbs via one or more of the following methods:

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- Direct installation of CFLs at each grid-connected residential household in exchange for an equivalent number of incandescent light bulbs. Exchanged incandescent light bulbs will be collected at the time of CFL installation; and/or
- Door-to-door distribution to each household (where direct installation is not possible) and collection of equivalent number of incandescent light bulbs at the time of CFL distribution;
- CFL distribution and incandescent light bulb collection can take place via a dedicated distribution point advertised in the local media by SSC-CPA implementer

The CPA under consideration includes project lamps CFL of the following types as per methodology AMS-IIJ, version 04/B04/. The verified technical details of the project lamp distributed in CPA are described below:

CFL (wattage) that will be distributed in lieu of ICL (wattage)

ILB	CFL	Lumen specified As per AMSII J	Lumen verified as per Data Sheet of CFL Manufacturer ^{/28/}
40 Watts	11Watts	415	440
60 Watts	13Watts	715	790
75 Watts	18 Watts	940	1100
100 Watts	20 Watts	1350	1420

The lumen outputs of the CFLs are validated through the Data sheets of Philips make CFLs. The company has entered in Memorandum of understandings (MOU) ^{/28/} with Philips Hongkong Ltd.

The expected start date of the CPA is 01/03/2012, which is start date of distribution/replacement of CFLs in the CPA, this is inline with requirements of glossary of CDM terms. The starting date of the CPA is after the first publication for global stakeholder consultation. i.e. 20/12/2011 and hence acceptable to the validation team,

The operational lifetime of the CPA is stated as 7.83 years ^{/02/}. This value has been calculated based on operational lifetime of each CFL ^{/28/} i.e. 10,000 hours. This is also stated as the length of crediting period of the CPA and the same is acceptable to the validation team.

The start date of crediting period of the CPA as per the CPA-DD ^{/02/} is 01/04/2013 or the date of registration whichever is later.

The CPA has not received and will not be seeking public funding from Annex 1 countries; hence no official development assistance (ODA) will be diverted from any funding from Annex 1 parties. CME has also provided a declaration that no ODA is involved in the PoA and CPA.

The validation team has assessed from UNFCCC website and on-site interviews that there is no other similar PoA or CDM project occurring in the CPA area and the CPA is neither registered as an individual CDM project activity or is part of another Registered PoA.

The information presented in the CPA documents is consistent with the actual planning and implementation of the activity confirmed in the following ways:

- A review and cross check of data and information.
- During site visit, via interviews of relevant stakeholder and personnel with project specific knowledge. In case of doubt, further cross checks through additional interviews were conducted.
- A review of information related to similar projects or technologies, which have been used if available to validate the accuracy and completeness of the project description.

In conclusion, CCL confirms that the CPA project description is sufficiently accurate and complete in order to comply with the requirements of the PoA.

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3.2.1 CPA Boundary

The CPA boundary was assessed considering information gathered from the physical site inspection, interviews and secondary evidence received on the design of the CPA. Validation team confirms that the project boundary for this CPAs is based on the applied methodology AMS-II J version 4 /B04/ and the sources and gases within the boundary have been considered in a clear manner. The project boundary includes the CFL connected in each household in Ikorodu Ikede

3.2.2 Baseline Scenario

The CPA is the adoption of self-ballasted CFLs to replace ICLs in residential applications thus saving electricity consumption generated by ECPG, hence, according to methodology AMS-II.J. Version04_{/B04/} the baseline scenario is determined at PoA level properly as:

The proposed project would not be invested by the project proponent and the incandescent lamps (ICLs) of households in Nigeria would be used as a continuation of current practice

Carbon Check is able to conclude that the identified baseline scenario is suitable for the specific CPA.

There are no mandatory requirements in Nigeria regarding the use of energy efficient CFL at the household level. This complies with **Para. 87 and 88/VVM**_{/B01/}.

Carbon Check hereby confirms that:

- a) All the assumptions and data used by the project participants are listed in the design documents, including their references and sources;
- b) All documentation used is relevant for establishing the baseline scenario and correctly quoted and interpreted in the design documents;
- c) Assumptions and data used in the identification of the baseline scenario are justified appropriately, supported by evidence and can be deemed reasonable;
- d) Relevant national and/or sector policies and circumstances are considered and listed in the design documents;
- e) The approved baseline methodology has been correctly applied to identify the most reasonable baseline scenario and the identified baseline scenario reasonably represents what would occur in the absence of the proposed CDM project activity.

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3.3 Eligibility Criteria for CPA Inclusion

	Eligibility criteria	Status	Assessment by DOE
	CFLs distributed/installed by the SSC-CPA are to grid-connected residential households within the geographical boundary of Nigeria	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Residential Household of Ikorodu- Ijede are within the geographical boundary of Nigeria
	<p>Procedures to avoid double counting are clearly defined in accordance with AMS ILJ version 4:</p> <ul style="list-style-type: none"> There is no other registered and operating SSC-CPA or CDM project concern with the distribution of energy efficient lighting bulbs within the specified geographical location/area SSC-CPA implementer cedes all rights over the CERs generated by the SSC-CPA to the CME, Icimi Ltd, under a contractual agreement 	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<p>There is no other similar program operating distribution of energy efficient lighting bulbs within the specified geographical location/area as evidenced by /B06/</p> <p>SSC CPA have already ceded rights to CME as evidenced by /03/</p>
	Each CFL met lumen output requirements in accordance with the relevant national or international standards/values or as detailed in Table 1 AMS II.J, Version 4, and rated average life of CFL meet the requirements of IEC 60969 or an equivalent national standard	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	<p>The Lumen output for the CFLs planned as per Data sheet supplied /34/by manufacturer/ to be distribute exceed the values as mentioned in AMS IIJ. The Data sheet also confirm that the CFL are IEC compliant However there is no test report to establish average life has been submitted to the DOE for Validation.. As per methodology AMS IIJ version 4 Paragraph 4 "<i>If the average life value is not available ex ante, it shall be made available for verification before or at the same time that the results of the second ex post monitoring survey, as required per paragraph 18 (b), are available for verification</i>"</p> <p>A FAR has been raised to be verified at later date as stipulated above.</p>
	SSC-CPA confirmed that the start date of the SSC-CPA is not prior to	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Validation team confirms that start date of the CPA is after GSC of the PoA.

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	the commencement of validation of the programme of activities, i.e. the date on which the CDM-PoA-DD is first published for global stakeholder consultation		
	SSC-CPA conformed to the PoA and followed the baseline and monitoring methodology AMS-II.J version 4	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Validated through the inclusion checklist ^{/34/} duly signed by CME and CPA implementer
	SSC-CPA complied with the additionality test described in Section E.5 PoA-DD	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Yes though additionality is established on POA Level the CP has submitted a spreadsheet of Investment analysis ^{/32/} .
	SSC-CPA has declared in writing that no public funding (ODA) from Annex I parties is used in the SSC-CPA, if public funding is received by SSC-CPA under the PoA, SSC-CPA affirmed that such funding does not result in diversion of ODA and is separate from and is not counted towards the financial obligations of those parties	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Validated through the confirmation letter ^{/34/} & inclusion checklist ^{/32/}
	CFLs are distributed/installed via one or more of the following methods: direct installation at participating households, door-to-door distribution at participating households, CFL collection from distribution points/centres advertised in the local media by SSC-CPA implementer	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Yes the same was validated through CPA implementation Plan ^{/36/}
	100% of the SSC-CPA monitoring is according to the procedures in A.4.4.2 and sampling methodology followed the procedure in Annex 4 of the POA-DD	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	CPA confirms that it will carry out monitoring is according to the procedures in A.4.4.2 and sampling methodology followed the procedure in Annex 4 of the POA-DD. Validated through the inclusion checklist ^{/34/} duly signed by CME and CPA implementer
	CPA in aggregate meets the small-scale threshold and does not exceed those thresholds throughout the crediting period of the CPA	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Yes the same was validated through CPA implementation Plan ^{/06/} and the ER calculation sheet ^{/32/}
	The de-bundling rules set out in EB 54, Annex 13, Guidelines for Assessment of De-bundling for SSC Project Activities (Version 3) is met	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	CPA implementer confirms that it's CPA will comply with the requirements. Validated through the inclusion checklist ^{/34/} duly signed by CME and CPA implementer
	SSC-CPA is not registered, or is being registered, as a stand-alone CDM project or as part of another PoA other than the proposed project	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	CPA implementer confirms that it's CPA will comply with the requirements. Validated through the inclusion checklist ^{/34/} duly signed by CME and CPA implementer

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	Contractual agreement signed between Icimi Ltd and SSC-CPA implementer	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Yes validated through ^{/33/}
	All requirements set out in the Gold Standard passport and Gold Standard stakeholder consultation report are met	<input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Validated through the inclusion checklist ^{/04/} duly signed by CME and CPA implementer

A CL-2 was raised on demonstration of carrying out an applicability check and the checklist was submitted in that regard.

3.4 Additionality

Project activities solely composed of isolated units where the users of the technology/measure are households and where the size of each unit is no larger than 5% of the small-scale CDM thresholds; CFL is an isolated unit; the users of the technology/measures are residential households. The size of each unit (CFL) is less than 5% stated in condition C paragraph 2, EB 68 Annex 27^{/B06/}, and demonstrated on page 15 of POA-DD :

As stated in PoA-DD^{/01/}, POA shall demonstrate additionality as per Annex 27 of EB 68 (version 09.0)^{/B06-i/}. Since all CPAs are going to distribute CFLs in the geographical boundary of Nigeria and each CPA is to comply to the conditions mentioned above the additionality will be demonstrated at POA Level.

However CPA has done investment analysis in the form of NPV analysis, showing the project activities estimated NPV with and without CDM consideration is used to demonstrate investment barrier faced by the SSC-CPA in the absence of CDM.. PP has considered following as Major expenses to determine NPV for the project

Parameter	Value in USD	Validation Assessment
Cost of CFL -	1.50 for 11 & 13 W CFL 2..24 for 18 & 20 W CFL	Validated through the estimated price provided by Supplier ^{/38/}
Distributing cost per CFL	0.06 /CFL	Calculated based on estimated salary of a distributor for one month who will distribute CFL to Estimated 40 Households/day and 4 CFLs/ house hold.. DOE confirms that estimates are appropriate.
Storage cost / CFL & ICL	0.03 /CFL	Warehousing cost based on the storage space required including the cost of staff. The costs are validated through prevailing warehouse facilities in Lagos, Nigeria
Recycling cost of ICL	0.02/ICL	DOE confirms that estimates are appropriate.
Monitoring survey cost/CFL	0.02/CFL	DOE confirms that estimates are appropriate.
Other costs relating to CDM process viz Monitoring surveys,CPA inclusion, Registration Fees & Promotional expenses	54000 /CPA	These are estimates based on approximate DOE costs & promotional expenses. Carbon check Confirms that estimates are conservative
CFL sale Price in USD	0.48	This is estimated at current price of incandescent lamp in Nigeria. Carbon check Confirms that estimates are conservative
Conversion Rates	1 NAIRA = 0.0064 USD	Validated through www.xe.com/ ^{/B17/} (, mid-

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		<i>market rate April 2012)</i>
Conversion Rates	(1 EUR = 1.32 USD,	www.xe.com/ ^{/B17/} average mid-market rate April 2012)
Discount Rate	12%	Validated through Nigeria Central Bank prime lending rate - March 2012 ^{/B18/}

Carbon check confirms that above costs are referred from the reliable references and the net present value for this CPA -1 is appropriate. The detailed calculation has been provided to DOE in a spreadsheet. CI-3 was raised in this regard and resolved.

Option	NPV \$
SSC-CPA NPV without CDM Consideration	-1,197,233
SSC-CPA NPV with CDM Consideration	-207,406
SSC-CPA NPV with CDM Consideration and CFL Sale	112,060

The Validation team confirms that NPV will continue to remain –ve in the scenarios where the inflation in the country continues to remain over 12% as evidenced by Nigerian inflation trend.

The validation team confirms that proposed CPA is additional.

3.5 Emission Reduction

Parameters determined ex-ante

The parameters that are determined ex-ante are:

Data/Parameter	Unit	Value used in ER Calculations	Source of data	Assessment by validation team
EFCO ₂ , ELEC _y	tCO ₂ /MWh	0.63	Calculated EX ante (refer POA-DD)	The ex ante value is appropriately calculated as per tool to calculate emission factor
O _i	Hours	3.5	Default value from AMS-II.J Ver. 4.(Para 12)	The Default value is in line with Methodology AMS-II.J Ver. 4.(Para 12) ^{/B04/}
NTG	-	0.95	Default value from AMS-II.J Ver. 4.(Para 12)	The Default value is in line with Methodology AMS-II.J Ver. 4.(Para 12) ^{/B04/}
Li	Hours		From the test certificate of each type of CFL	The Default value is in line with Methodology ^{/B04/}
Xi	Hours	1277.50 / Annum 1281 (For Leap Year	Calculated @ 3.5 Hrs for 365 Days/366 Days(For Leap Year)	The Calculation of hours has been correctly done
TD _y	%	10%	Default value from AMS-II.J Ver. 4.	The Default value is in line with Methodology AMS-II.J Ver. 4. ^{/B04/}

In summary, the parameters determined ex-ante has been presented correctly according to requirements.

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Emission reduction calculation

- According to the baseline methodology AMS.II.J. version 04/B04/, Emission reduction is net electricity savings(NES) times the emission factor calculated in accordance with provisions under AMS.I.D.

$$ER_y = NES_y * EF_{CO2,ELEC,y}$$

The electricity saved by the project activity in year y is calculated as follows:

$$NES_y = \sum_{i=1}^n Q_{PJ,i} \times (1 - LFR_{i,y}) \times ES_i \times \frac{1}{(1 - TD_y)} \times NTG$$

$$ES_i = (P_{i,BL} - P_{i,PJ}) \times O_i \times 365 / 1000$$

Where

Parameter	Description	Value Used	Validation Assessment																		
NES_y	Net electricity saved in year y (kWh)	For 1 st Year 58.839	Calculated value is correct.																		
QP_{J,i}	Number (quantity) of pieces of equipment (CFLs) of type i distributed or installed under the project activity (units). In total for all "i", this value shall be equal to or less than the documented number of all baseline incandescent lamps destroyed. Once all of the project CFLs are distributed or installed, QP _{J,i} is a constant value independent from y	11W- 7454 nos 13W- 372711 nos. 18W- 14908 nos. 20W 350348 nos.	Values Validated as per CPA implementation Plan _{/36/}																		
i	Counter for equipment type	1																			
n	Number of types of equipment i	4	Validated as per CPA implementation Plan _{/36/}																		
ES_i	Estimated annual electricity savings for equipment of type i, for the relevant technology (kWh) in first year	58,839 Kwh for 1 st year	Validated as per CPA implementation Plan _{/36/}																		
LFR_{i,y}	Lamp Failure Rate for equipment type i in year y (fraction) Lamp Failure Rate for equipment type i in year y (fraction) It will be calculated in following manner If $y * X_i < L_i, LFR_{i,y} = y * X_i * (100 - R_i) / (100 * L_i)$ If $y * X_i > or = L_i, LFR_{i,y} = 1$ Where: LFR _{i,y} Lamp Failure Rate for equipment type i in year y (fraction) L _i Average Life (or Rated Average Life until average life value is available) for	<table border="1"> <thead> <tr> <th>Year</th> <th>%</th> </tr> </thead> <tbody> <tr><td>1</td><td>6.39</td></tr> <tr><td>2</td><td>12.78</td></tr> <tr><td>3</td><td>19.16</td></tr> <tr><td>4</td><td>25.55</td></tr> <tr><td>5</td><td>31.94</td></tr> <tr><td>6</td><td>38.99</td></tr> <tr><td>7</td><td>44.71</td></tr> <tr><td>8</td><td>100</td></tr> </tbody> </table>	Year	%	1	6.39	2	12.78	3	19.16	4	25.55	5	31.94	6	38.99	7	44.71	8	100	Failure rate has been calculated as per the equation and is appropriate.
Year	%																				
1	6.39																				
2	12.78																				
3	19.16																				
4	25.55																				
5	31.94																				
6	38.99																				
7	44.71																				
8	100																				

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	equipment type i (hours)		
	R _i % of lamps of type i operating at the end of average life or the rated average life (use a value of 50)		
	X _i Number of operating hours per year for equipment type i (hours)		
	y Counter for year		
TD_y	Average annual technical grid losses (transmission and distribution) during year y for the grid serving the locations where the devices are installed, expressed as a fraction. This value shall not include non-technical losses such as commercial losses (e.g., theft/pilferage).	10%	Default value as Per AMS IIJ Version 04 _{/B04/}
NTG	Net-to-gross adjustment factor, a default value of 0.95 is to be used unless a more appropriate value based on a lighting use survey from the same region and not older than 2 years is available	0.95	Default value as Per AMS IIJ Version 04 _{/B04/}
P_i, BL	Rated power of the baseline lighting devices of the group of "i" lighting devices (Watts)	78.9	Default value as per CPA implementation Plan _{/36/}
P_i, PJ	Rated power of the project lighting devices of the group of "i" lighting devices (Watts)	16.4	Default value as per CPA implementation Plan _{/B04/}
O_i	Average daily operating hours of the lighting devices replaced by the group of "i" lighting devices, use 3.5 hours per 24 hour period as the default value.	3.5 hrs	Default value as Per AMS IIJ Version 04 _{/B04/}

The CPA-DD confirms to meet the procedures provided in the methodology /B02/ and PoA-DD /01./ The formulae are correctly presented for the determination of emission reductions.

CCL has assessed the calculations of emission reductions and emissions factor. Corresponding calculations have been carried out based on calculation spreadsheets_{/02/}. The parameters and equations presented in the CPA-DD/01/, as well as other applicable documents, have been compared with the information and requirements presented in the PoA DD /01/.

Thus net energy saving have been worked out as per

$$NES_y = \sum_{i=1}^n Q_{PJ,i} \times (1 - LFR_{i,y}) \times ES_i \times \frac{1}{(1 - TD_y)} \times NTG$$

and

$$ES_i = (P_{i,BL} - P_{i,PJ}) \times O_i \times 365 / 1000$$

The net energy savings and the Emission reductions for the life time of the projects are tabulated below. Carbon Check confirms that the estimates are calculated appropriately and the most conservative.

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The net electricity saved and emission reductions estimated /year is as mentioned below

Year	Net saving in Electricity in Mwh	Emission Reduction tco2/Year
1	55,254	34,810
2	51,484	32,435
3	47,714	30,060
4	43,943	27.684
5	40,173	25,309
6	36,403	22,934
7	32,633	20,559
8	29,512	18,593

3.6 Monitoring Plan

The monitoring plan presented in the CPA-DD /01/ complies with the requirements of the PoA-DD /01/, the applied monitoring methodology /B03/. The assessment team has verified all parameters in the monitoring plan against the requirements of the methodology and no deviations have been found.

The assessment team through document review and interviews with the relevant personnel has reviewed the monitoring procedures_{/07/}. Monitoring procedures are based on applied the methodology_{/B02/}. The information provided has allowed the assessment team to confirm that the proposed monitoring plan is feasible within the project design. The relevant points of monitoring plan have been discussed with the PoA managing entity and the CPA implementer. Specifically, these points include the monitoring methodology, data management, sampling procedures, records and data control procedures, quality assurance and quality control procedures to be implemented in the context of the activity. CL 4 was raised in this regard and has been addressed.

The sampling procedure as detailed in Annex-4 CPA-DD_{/01/} and /POA-DD_{/01/} have been correctly calculated and are in line with Standard for sampling and surveys for CDM Project Activities and PoAs, version 03.0, EB 69 (Annex 4)_{/B06-i & j/} Guidelines for sampling and surveys for CDM project activities and programme of activities, version 02.0 EB 69 (Annex 5)_{/B06-i & j/}

In summary, the parameters determined ex-post has been presented correctly according to requirements and are considered in accordance with the applied methodology /B02/.

The responsibilities and institutional arrangements for data collection and archiving have been clearly provided. The information provided in the CPA-DD_{/01/} could be confirmed based on the on-site interviews and also through the submitted documentary evidence namely CME management manual /09/ & CPA Implementation Manual covering all requirements as stated in section E.7.2 of PoA DD /04/. Based on the same, it can be confirmed that the PoA managing entity and the CPA implementer will be able to implement the monitoring plan and the achieved emission reductions can be reported ex-post and verified.

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3.7 Stakeholder Consultation.

It has been indicated in the PoA DD₀₁ that the local stakeholder consultation shall be done at the POA Level

3.8 Environmental Analysis

Environmental Analysis is being done at POA Levels.

APPENDIX A

THE VALIDATION PROTOCOL FOR CDM PROGRAMME OF ACTIVITIES

Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede
REPORT No. CCL00115/BLN/24012012/CPA-1

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Table 1: Conformity of CDM Programme of Activities

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	GSP	Final
A. GENERAL DESCRIPTION OF CDM PROGRAMME ACTIVITY (CPA)				
A.1. Title of the CPA:				
A.1.1. Does the used CPA title clearly enable to identify the unique CDM programme activity?	/1/,/B01/ /B04/	Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede is the unique CDM . In the web hosted version the title of the CPA.-1 was not distinct from the POA description. And GPS Coordinate of the area were not mentioned The PDD was revised to include the information	CAR-1	<input checked="" type="checkbox"/>
A.1.2. Are there any indications concerning the revision number and the date of the revision?	/1/,/B01/ /B04/	Final CPA-DD is version No.04 dated 12 th Decemeber 2012	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.1.3. Is this consistent with the time line of the programme's history?	/1/,/B01/ /B04/	This is the first CPA of the POA Yes it is consistent with the time line of POA history	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2. Description of the CPA:				
A.2.1. Is the description delivering a transparent overview of the CPA?	/1/,/B01/ /B04/	Yes the CPA-DD states that the project is developed under the Small-scale CDM Programme of Activities titled: Energy Efficiency of Nigeria's Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps to Residential Households Connected to the National Grid.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.2. Is the project implementation schedule available; are there any risks for delays?	/1/,/06, /B01/ /B04/	Yes the CPA implementation schedule is available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.3. Is CPA specific data clearly indicated as per CPA template?	/1/,/B01/ /B04/	Yes the CPA specific data is indicated in the CPA-DD. The CPA Plans to install 745,421 CFLs at grid connected residential households at Ikorodu-Ijede, Lagos State, Nigeria.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.4. What proofs are available demonstrating that the programme description is in compliance with the actual situation or planning?	/1/,/06, ,/B01/ /B04/	A SSC-CPA Distribution layout has been submitted which has outlined in details how the lamp distribution of the CFLs will take place.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.5. Is the information provided by these		Yes the proofs are consistent	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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proofs consistent with the information provided by the CPA-DD and the PoA-DD?				
A.2.6. Is all information presented consistent with details provided by further chapters of the CPA-DD and the PoA-DD?	/01/,/06/, /B01/ /B04/	Yes the information is consistent with in CPA-DD and POA-DD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3. Entity/individual responsible for the CPA:				
A.3.1. Does it become evident which entity/individual is responsible for the CPA (the CPA implementer)?	/01/,/03/, /05/,/06/, /B01/ /B04/	ICimi Nigeria Ltd. Is a CPA Implementor	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3.2. Is there any document substantiating that the stated entity/individual is responsible for the implementation of the CPA?	/01/,/03/, /05/,/06/, /B01/ /B04/	There is a document ry confirmation dated 12 th September 2012 that Icimi Nigeria will be implementing the CPA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3.3. Is all information on the CPA implementer provided in consistency with details provided by further chapters of the CPA-DD (in particular annex 1)?	/01/,/03/, /05/,/06/, /B01/ /B04/	Yes it is consistent	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4. Technical description of the CPA:				
A.4.1. Identification of the CPA:				
A.4.1.1. Is the Host Party stated and consistent with the information provided in the PoA-DD?	/01/,/B01/ /B04/	Yes Host party is Nigeria	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.1.2. Does the information provided on the location of the programme activity allow for a unique identification of the location and the boundary of the CPA in terms of the geographical area?	/01/,/04/,/06/ /,/B01/ /B04/	Yes the geographical location is Ikorodu-Ijede	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.1.3. Are the geographic reference and the means of identification transparent and clear? Is GPS data provided?	/01/,/B01/ /B04/	Yes the GPS data is provided Ikorodu: 6° 35' 60.00"N 3° 30' 0.00"E Ijede: 6° 34' 0.00"N 3° 36' 0.00"E	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.1.4. How it is ensured and/or demonstrated, that the project proponents can implement the project (ownership,	/01/,/04/,/06/ /B01/ /B04/	The First CPA is Bering implemented by the Icimi Ltd. Which is subsidiary of Icimi Ltd UK	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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licenses, contracts etc.)?				
A.4.2. Duration of the CPA: Description of a typical CDM programme activity (CPA)				
A.4.2.1. Is the starting date of the CPA provided?	/01/,/04,/06/ /B01/ /B04/,	Yes the starting date of CPA is 01/03/2013. on the webhosted version a clarification was asked on the evidence on a start date . The PP has submitted an evidence and revised the PDD	GL+ <input type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.2. Is the starting date consistent with the PoA timeline and the requirements of the PoA procedures?	/01/,/04,/06/ B01/,/B04/	Yes it is consistent with POA time lines	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.2.3. Is the operational lifetime of the CPA clearly defined and plausible?	/01/,/04,/06/ B01/,/B04/	Yes operational life time has been defined as 7.83 Years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3. Choice of the crediting period and related information:				
A.4.3.1. Is the starting date of the crediting period stated and plausible (in accordance with the PoA procedures)?	/01/,/04,/06/ B01/,/B04/	A fixed crediting period of 7.83 years has been chosen and start date is 1/4/2013	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.2. Is it evident that fixed crediting period is chosen, what is the length of the crediting period?	/01/,/04,/06/ B01/,/B04/	A fixed crediting period of 7.83 years has been chosen	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.4. Estimated amount of emission reductions over the crediting period:				
A.4.4.1. Estimated amount of emission reductions stated?	/01/,/02/ B01/,/B02/	Yes a total of 226,164 T of of emission reduction will happen during 7.83 years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.4.2. Is the estimated amount consistent with section B 5 of the CPA-DD?	/01/,/02/ B01/,/B02/	Yes it is consistent with	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.5. Public funding of the programme activity				
A.4.5.1. Is the information provided on public funding provided in compliance with the actual situation or planning?	/01/,/03/ B01/,/B02/	Yes information and a written confirmation about non receipt of ODA funding have been submitted.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.5.2. Is all information provided consistent with the details given in remaining chapters of the CPA-DD (in particular annex 2)?	/01/,/03/ /04/ B01/,/B02/	3.8.1 Yes there is a consistent information	3.8.2 <input checked="" type="checkbox"/>	3.8.3 <input checked="" type="checkbox"/>
A.4.6. Confirmation that the CPA is neither registered as an individual CDM project activity or is part of another registered PoA				
A.4.6.1. Confirmation provided by coordinating/managing entity or CPA implementer?	3.8.4 01/,/03/ 3.8.5 ,/04/	3.8.7 Yes A written confirmation dated 12 th September, 2012 has been provided by the CPA implementer	3.8.8 <input checked="" type="checkbox"/>	3.8.9 <input checked="" type="checkbox"/>

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	3.8.6 B01/,/B02/			
A.4.6.2. Is the CPA implementer undertaking another similar project activity in the same region? If yes, are the project activities uniquely identified and not overlapping with this CPA?	3.8.10 01/,/03/ 3.8.11 ,/04/ 3.8.12 B01/,/B02/	3.8.13 There is no other CFL distribution programme by the CPA Implementer. In fact in Nigeria there is no other similar programme under validation /registration in Nigeria	3.8.14 <input checked="" type="checkbox"/>	3.8.15 <input checked="" type="checkbox"/>
B. ELIGIBILITY OF THE CPA AND ESTIMATION OF EMISSION REDUCTIONS:				
B.1. Title and reference of the registered PoA to which CPA is added:				
B.1.1. Are the title and reference correctly provided?	3.8.16 /01/,/04/ 3.8.17 /B01/, 3.8.18 /B02/,	Yes The title of PoA 'Energy Efficiency of Nigeria's Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid' is "Energy Efficiency of Nigeria's Residential Lighting Stock by Distributing up to 40 Million Compact Fluorescent Lamps (CFLs) to Residential Households Connected to the National Grid" is correct	3.8.19 <input checked="" type="checkbox"/>	3.8.20 <input checked="" type="checkbox"/>
B.2. Justification of CPA is eligible to be included in the registered PoA:				
B.2.1. Is the CPA meet all the eligibility criterion as stipulated under section A.4.2.2 of the CDM-PoA-DD?	3.8.21 /01/,/04/ 3.8.22 /B01/, 3.8.23 /B02/,	Yes it meets all eligibility criteria of section A.4.2.2 of the CDM-PoA-DD? At the time of validation there was no evidence available if an applicability check for inclusion was carried out by CME for CPA-1 and how it is ensured that CPA in aggregate meets the small scale threshold level. A signed document was submitted where it was confirmed that CPA meets all eligibility criteria <u>Forward Action Request:-01</u> Ex ante life of CFL 12 to 20W (determined though IEC 60969) used in the CPA boundary needs to be included in the PDD. Please also submit a test report to DOE for carrying out validation.	CL-2 FAR-1	<input checked="" type="checkbox"/> FAR-1
B.2.2. Is the geographical boundary of the CPA including any time-induced boundary consistent with the geographical boundary set in the PoA?	/01/,/04/ /B01/, /B02/,	Yes the geographical location is Ikorodu-Ijede	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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B.2.3.	Is unique identifications of CAP project location (e.g. wind site etc.); are clearly ant transparently provided to avoid double counting of emission reductions?	/01/,/04/ /B01/, /B02/,	CPA covers only these two towns of Nigeria I <u>korodu-ljede</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.4.	Is specification of technology/measure including the level and type of service, performance specifications including compliance with testing/certifications are in line with the CDM-POA-DD?	/01/,/04/ /B01/, /B02/,	The SSC-CPA will replace incandescent light bulbs with CFLs in residential households that are connected to the national grid. The Nigerian grid is powered by hydropower and thermal, and is primarily fossil fuel based	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.5.	Is the start date of the CPA is clearly evidenced?	/01/,/04/ /B01/, /B02/,	Yes the start date of the CPA is 01/03/2013	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.6.	Is it ensured that the CPA complies with applicability and other requirements of single or multiple methodologies?	/01/,/04/ /B01/, /B02/,	There is only one methodology applicable AMS IIJ Version 04	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.7.	Is it ensured that CPAs meet the requirements pertaining to the demonstration of additionality as specified in PoA-DD?	/01/,/04/ /B01/, /B02/,	Yes it is ensured that CPA meets the applicability criteria of POA-DD. There is a signed checklist which has been filled before the CPA inclusion	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.8.	The PoA-specific requirements stipulated by the CME including any conditions related to undertaking local stakeholder consultations and environmental impact analysis;	/01/,/04/ /B01/, /B02/,	Stake holder consultation is at POA level	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.9.	Does CPA provides an affirmation that funding from Annex I parties, if any, does not result in a diversion of official development assistance?	/01/,/04/ /B01/, /B02/,/03/	Yes a written confirmation dated 12 th September 2012 has been submitted	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.10.	Are the target group (e.g. domestic/commercial/industrial, rural/urban, grid- connected/off-grid) and distribution mechanisms (e.g. direct installation) is well defined and documented in the CPA?	01/,/04/ /B01/, /B02/,/03/	Yes a detailed CPA implementation Plan has been developed and distribution will be only to residential households	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.11.	Where applicable, the conditions related to sampling requirements for a	01/,/04/ /B01/,	Yes the sampling requirements for a PoA in accordance with the approved guidelines/standard from the Board pertaining	CAR-2	<input checked="" type="checkbox"/>

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PoA in accordance with the approved guidelines/standard from the Board pertaining to sampling and surveys are applied?	/B02/,/B05/	to sampling and surveys are applied? There was an error in calculating sample size for Monitoring survey and the recalculation were carried out to arrive at right sample size.		
B.2.12. the conditions that ensure that every CPA in aggregate meets the small-scale or micro-scale threshold criteria and remains within those thresholds throughout the crediting period of the CPA;	01/,/04/ /B01/, /B02/,	CPA in aggregate meets the small-scale or micro-scale threshold criteria and remains within those thresholds throughout the crediting period of the CPA;. CFL replacements will be carried out only one time	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.2.13. Where applicable, the requirements for the de-bundling check, in case CPAs belong to small-scale (SSC) or micro-scale project categories are fulfilled?	01/,/04/ /B01/, /B02/,/	This is done at POA level., There is no other CFL distribution programmes currently in Nigeria validated through UNFCCC website	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.3. Assessment and demonstration of additionality of the CPA, as per eligibility criteria listed in the registered PoA:				
B.3.1. Are the key criteria and data for assessing additionality of a CPA that are included appropriately?	01/,/02/ /B01/, /B02/,	The additionality is demonstrated at POA level but to demonstrate Investment Barrier ,a simple cost analysis adapted from the PoA investment analysis spread-sheet, showing the project activities estimated NPV with and without CDM consideration is used to demonstrate investment barrier faced by the SSC-CPA in the absence of CDM. A clarification was raised on the webhosted PDD how NPV has been computed for CPA-1 and the same must be substantiate it with assumptions made in the calculations.. The revision was carried out in the Final PDD. Have validated all the input values used in the calculation of NPV	CL-3	<input checked="" type="checkbox"/>
B.4. Description of the sources and gases included in the project boundary and proof that the CPA is located within the geographical boundary of the registered PoA				
B.4.1. Does the CPA boundary include the physical and geographical location where the programme activities take place?	/01/, /B01/, /B02/,	The PoA covers the geographical boundary of Nigeria. Ikorodu-Ijede, the location of the proposed SSC-CPA, is within the geographical boundary of Nigeria. Therefore the proposed SSC-CPA is within the geographical scope of the PoA.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.2. Is there any proof that the CPA is	/01/, /B01/,	See above in B.4.2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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	located within the geographical boundary of the registered PoA?	/B02/			
B.4.3.	Are all sources and gases within the boundary considered in a clear manner?	/01/ /B01/ /B02/	Yes Compared to incandescent light bulbs, CFLs increase the energy efficiency of lighting, resulting in less fossil fuel being used to produce electricity for a given quantity of lighting	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.4.	Does the spatial and technological boundaries as verified on-site comply with the discussion provided by / indication included to the PoA-DD or CPA-DD?	/01/ /B01/ /B02/	Yes the boundary verified on site comply with discussions provided in PDD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5. Emission reductions:					
B.5.1. Data and parameters that are available at validation (B.5.1.):					
B.5.1.1.	Are the equations, including fixed parametric values, to be used for calculation of emission reductions of a CDM-CPA, completely presented?	/01/,/02/ ,/B01/,/B02/	Yes equations, including fixed parametric values, to be used for calculation of emission reductions of a CDM-CPA, completely presented and they are same as listed in POA-DD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.1.2.	Is the list of parameters presented in chapter B.5.1 considered to be complete with regard to the requirements of the applied methodology?	/01/,/02/ ,/B01/,/B02/	Yes the List is complete	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.2. Ex-ante calculation of emission reductions (B.5.2.):					
B.5.2.1.	Are the GHG calculations documented in a complete and transparent manner?	/01/,/02/ ,/B01/,/B02/	The GHG calculations documented in a complete and transparent manner. The CPA will save 226,124tCo2e during the entire crediting period of 7.83 years	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.2.2.	Is the data provided in this section consistent with data as presented in other chapters of the PoA-DD or CPA-DD?	01/,/02/ ,/B01/,/B02/	Yes the data is consistent	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.3. Summary of the ex-ante estimation of emission reductions (B 5.3)					
B.5.3.1.	Will the programme activity result in lesser GHG emissions than the baseline scenario?	01/,/02/ ,/B01/,/B02/	Yes it will be equivalent to energy savings on account of usage of CFLs	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.3.2.	Is the form/table required for the indication of projected emission		Not applicable	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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reductions correctly applied?				
B.5.3.3. Do these values comply with small-scale criteria for every year?	01/,/02/ ,/B01/,/B02/	Yes the values comply will small scale criteria	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.3.4. Is the projection in line with the envisioned time schedule for the programme's implementation and the indicated crediting period?	01/,/02/ ,/B01/,/B02/	Yes the CPA is in line with schedule for the programme's implementation and the indicated crediting period	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.3.5. Is the data provided in this section in consistency with data as presented in other chapters of the PoA- or CPA-DD?	01/,/02/ ,/B01/,/B02/	Yes the data is consistent	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6. Application of the monitoring methodology and description of the monitoring plan				
B.6.1. Description of the monitoring plan for the CDM-CPA				
B.6.1.1. Is the operational and management structure clearly described and in compliance with the envisioned situation?	01/,/02/,/07/ ,/B01/,/B02/	The monitoring plan described in sections E.7.1 and E.7.2 of the related SSC-PoA-DD document and CME monitoring guidelines	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.2. Are responsibilities and institutional arrangements for data collection and archiving clearly provided?	01/,/02/,/07/ ,/B01/,/B02/	A documented Monitoring plan has been developed to clearly define responsibilities and institutional arrangements for data collection and archiving	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.3. Does the monitoring plan provide current good monitoring practice?	01/,/02/,/07/ ,/B01/,/B02/	Yes it is well documented exhaustive monitoring plan	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.4. If applicable: Does annex 4 provide useful information enabling a better understanding of the envisioned monitoring provisions?	01/,/02/,/07/ ,/B01/,/B02/	Annex 4 provides clear guidance's on sampling plan to be followed by CPA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.5. Is the list of parameters presented in chapter B.6.1 considered to be complete with regard to the requirements of the applied methodology?	01/,/02/,/07/ ,/B01/,/B02/	The list is complete and in line with Methodology AMS II J version 04	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C. ENVIRONMENTAL ANALYSIS				
C.1. Indication of the level at which environmental analysis as per requirements of the CDM modalities and procedures is undertaken. Justification of choice of level at which the environmental analysis is undertaken:				

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C.1.1.	Is it defined whether the environmental analysis takes place at PoA or CPA level?	/01/	The environmental analysis takes place at PoA level	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C.1.2.	Is the choice whether the environmental analysis takes place at PoA or CPA level justified?	/01/	Yes it is justified in POA-DD as well as in CPA-DD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C.2. Documentation on the analysis of the environmental impacts, including trans-boundary impacts					
C.2.1.	Is it defined whether the environmental analysis takes place at PoA or CPA level?	/01/	The environmental analysis takes place at PoA level	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C.2.2.	Is the choice whether the environmental analysis takes place at PoA or CPA level justified?	/01/	Yes it is justified in POA-DD as well as in CPA-DD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C.3. Please state whether in accordance with the host party laws/regulations, an environmental impact assessment is required for a typical CPA level, included in the PoA.					
C.3.1.	Is it defined whether the environmental analysis takes place at PoA or CPA level?	/01/	EIA is not necessary for CFL distribution project	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C.3.2.	Is the choice whether the environmental analysis takes place at PoA or CPA level justified?	/01/	EIA is not necessary for CFL distribution project	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D. STAKEHOLDERS' COMMENTS					
D.1. Please indicate the level at which local stakeholder comments are invited. Justify the choice:					
D.1.1.	Is there a clear statement whether the stakeholder comments were invited at PoA or CPA level?	/01/,/07/	The Gold standard stake holder Consultation has been carried out at POA level	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.1.2.	Is the choice justified in a clear and reasonable manner?	/01/,/07/	Yes the choice is justified at POA Level	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E. ANNEXES 1 – 4					
E.1. Annex 1: Contact Information					
E.1.1.	Is the information provided consistent with the one given under section A.3?	/01/	Yes the contact information is consistent Icimi Nigeria Ltd	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.1.2.	Is the information on all private	/01/	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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	participants and directly involved Parties presented?				
E.2. Annex 2: Information regarding public funding					
E.2.1.	Is the information provided on the inclusion of public funding (if any) in consistency with the actual situation presented by the project participants?	/01/	There is no extra information . It is already covered.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.2.2.	If necessary: Is an affirmation available that any such funding from Annex-I-countries does not result in a diversion of ODA?	/01/	Yes there is a confirmation available	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.3. Annex 3: Baseline information					
E.3.1.	If additional background information on baseline data is provided: Is this information consistent with data presented by other sections of the PoA- or CPA-DD?	/01/,/02/ /B01/,/B02/	Baseline information is same as in POA_DD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.3.2.	Is the data provided verifiable? Has sufficient evidence been provided to the validation team?	01/,/02/ /B01/,/B02/	Yes it has been verified through the spreadsheet	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.3.3.	Does the additional information substantiate / support statements given in other sections of the PoA- or CPA-DD?	01/,/02/ /B01/,/B02/	There is no additional information	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.4. Annex 4: Monitoring information					
E.4.1.	If additional background information on monitoring is provided: Is this information consistent with data presented in other sections of the PoA- or CPA-DD?	01/,/02/ ,/06/, /B01/,/B02/	The annex 4 provides the detailed information on Monitoring Plan. In addition it also provide calculations to arrive at sample size. The data is consistent with POA-DD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.4.2.	Is the information provided verifiable? Has sufficient evidence been provided to the validation team?	01/,/02/ ,/06/, /B01/,/B02/	Yes the calculations have been verified.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.4.3.	Do the additional information and /	01/,/02/ ,/06/,	Yes a spread sheet has been provided on ER calculations	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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or documented procedures substantiate / support statements given in other sections of the PoA- or CPA-DD?	/B01/,/B02/	and DOE has verified the correctness of calculations.		
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Table 2: Resolution of Corrective Action and Clarification Requests (CPA-DD)

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of programme activity implementer's response	Validation team Conclusion
CORRECTIVE ACTION REQUESTS			
CAR-1 The project participant is requested to clearly indicate the title of the CPA.-1 so that it looks distinct from the POA description. Additionally please provide GPS Coordinate of the area		Nigeria Energy Efficiency CFL Lighting Scheme - ICIMI-PoA – CPA 1 – Ikorodu-Ijede SSC-CPA-DD and all related documents have been updated to reflect title change. GPS Coordinate of the SSC-CPA project areas has been included in section A.4.1.2 of the SSC-CPA-DD as follows:	The description is distinct hence accepted by DOE <input checked="" type="checkbox"/> GPS coordinated verified through Google earth. <input checked="" type="checkbox"/>

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		<p>GPS Coordinate</p> <p>Ikorodu: 6° 35' 60.00"N 3° 30' 0.00"E Ijede: 6° 34' 0.00"N 3° 36' 0.00"E</p>	
<p>CAR-2</p> <p>There is a discrepancy in equation to determine sample size as mentioned in POA- PDD and CPA-DD .Please correct</p>		<p>The equation to determine sample size has been corrected and Annex 4 of the PoA and CPA documents have been updated accordingly.</p>	<p>The equation has been corrected as per</p>
CLARIFICATION REQUEST			
<p>CL-1:</p> <p>The project participant is requested to substantiate the start date of the CPA with supporting evidence and also submit a plan of resources, procurement and distribution.</p>		<p>Signed MOU was sent to Carbon Check on 28/11/12. ERPA Agreements between ICIMI and Eneco, and letter from ICIMI Nigeria to ICIMI Limited confirming participation in the PoA/ CPA has been sent to Carbon Check.</p> <p>The following documents comprehensively describe plan for resources procurement and CFL distribution for the SSC-CPA: CME Monitoring Plan 27 Nov 2012.pdf CPA – Project Plan 27 Nov 2012.pdf All documents have been sent to Carbon Check on 28/Nov/2012</p>	<p>The start date of the CPA has been fixed as 01.03.2013. m2hich will be start date of distribution of CFLs also . This verified through CPA planning records. <input checked="" type="checkbox"/></p>
<p>CL--2</p> <p>Please submit an evidence ,that a eligibility check was carried out by CME for CPA-1</p> <p>a) to ensure that it meets all eligibility criteria of inclusion stated in POA-DD.</p> <p>b) CPA in aggregate meets the small scale threshold level</p>		<p>Done. CPA Inclusion sheet and applicability criteria exercise sheet sent to Carbon Check on 3/12/12. Refer to: CPA inclusion.pdf</p>	<p>CPA inclusion sheet demonstrate that CPA has met all the eligibility criteria for inclusion of a CPA in to POA. <input checked="" type="checkbox"/></p>
<p>CL--3</p> <p>Please submit the calculations how NPV</p>		<p>Please refer to the following excel spread-sheet which was submitted to Carbon Check on 29/Nov/2012:</p>	<p>The values have been validated as assumptions, sources and justification for</p>

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<p>has been computed for CPA-1 and substantiate it with assumptions made in the calculations</p>		<p>CPA 1 Project Financial - Income Calculation 28 November 2012.xls</p> <p>Refer to Column D of the Input sheet of the spread-sheet for assumptions, sources and justification for used data/value</p>	<p>used data/value are accepted. <input checked="" type="checkbox"/></p>
<p>CL-4 Please provide the copies of all CME approved standardized data recording formats to record the</p> <ul style="list-style-type: none"> a) Distribution of CFL b) Collection of Incandescent bulbs c) Storage records formats for CFL & Incandescent bulbs 		<p>Approved standardized data format for CFL distribution, ICL collection and CFL and ICL storage are provided in the project plan report. Please refer to page 6 of CPA Project Plan document: CPA – Project Plan 27 Nov 2012.pdf</p>	<p>Project plan is a comprehensive document containing templates of the documents used in the project and CPA . The response is accepted. <input checked="" type="checkbox"/></p>

Table 3: Unresolved Corrective Action and Clarification Requests (Forward Action Requests) (CPA-DD)

Forward action request	Reference to Table 2	Response by project participants Validation Conclusion
<p>Ex ante life of CFL 12 to 20W (determined though IEC 60969) used in the CPA shall be evidenced. PP shall submit a test report in this context to DOE carrying out 1st Verification.</p>	<p>-</p>	<p>Test report shall be made available at the first verification. DOE will confirm compliance with the requirements of applicable standard at the first verification.</p> <p>According to AMS-II.J version 4, test report for Rated Average Life (Li) of the CFLs to be deployed in the project can be made available for verification before or at the same time that the results of the second ex post monitoring survey.</p> <p>DOE accepts the response <input checked="" type="checkbox"/></p>

APPENDIX B

CERTIFICATE OF COMPETENCE

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