

Validation report form for renewal of CDM programme of activities period (Version 02.0)

Complete this form in accordance with the instructions attached at the end of this form.				
BASIC	INFORMATION			
Title and UNFCCC reference number of the programme of activities (PoA)	Small-scale solar electrical programme, South Africa UNFCCC reference number: 7484			
Number and duration of the next period	Number: Second renewal period			
	Duration: 26/11/2019 to 25/11/2026 (including both the days)			
Version number of the validation report	05			
Completion date of the validation report	25/09/2020			
Version number of PoA-DD to which this report applies	12			
Coordinating/managing entity (CME)	Blue World Carbon Asset Management (Pty) Ltd			
Host Parties	Republic of South Africa			
Applied methodologies and standardized baselines	Methodology 1: AMS-I.F.: Renewable electricity generation for captive use and mini-grid, version 3.0			
	Methodology 2: AMS-I.D.: Grid connected renewable electricity generation, version 18.0			
	Standardized baseline: ASB0040-2018: Grid emission factor for the Southern African power pool, version 1.0			
Mandatory sectoral scopes	1			
Conditional sectoral scopes, if applicable	Not applicable			
Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next programme of activities period	Not applicable			
Name and UNFCCC reference number of the DOE	E-0052: Carbon Check (India) Private Ltd.			
Name, position and signature of the approver of the validation report	Amit Anand, CEO			

SECTION A. Executive summary

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The CME, Blue World Carbon Asset Management (Pty) Ltd, has appointed the DOE, Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the renewal of crediting period to the CDM Programme of Activities (PoA) "Small-scale solar electrical programme, South Africa".

The term "UNFCCC criteria" refers to Article 12 of the Kyoto Protocol, the CDM modalities and procedures and the subsequent decisions by the CDM Executive Board. The independent Validation by the DOE is required on the PoA-DD /01/ to confirm the validation of the Renewal of the PoA period. This report summarises the Renewal of crediting period of the PoA with respect to requirements of CDM VVS for PoAs (version 02.0) /B01-1/. This report contains the findings and resolutions from the validation and a validation opinion.

Scope:

The scope of the validation is defined as an independent and objective review of the revised PoA-DD, the baseline, monitoring plan and other relevant documents. The information in these documents is reviewed against the CDM VVS for PoAs (version 02) /B01-1/, CDM PCP for PoAs (version 02) /B01-3/ and CDM PS for PoAs (version 02) /B01-2/

The report is based on the assessment of the PoA-DD, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (telephone or e-mail) interviews) and also the review of the applicable approved methodological and relevant tools, guidance and CDM decisions.

Purpose, general description and location:

The Purpose of this programme is to increase the use of renewable energy by domestic consumers and private companies of the RSA. A typical CPA under this PoA is either:

Type 1: The group of the independent activities under the predetermined province of the RSA, each of which is no larger than 0.15 MW installed capacity. Activities will be added ex post during the crediting period of the corresponding CPA (actual independent activities may not be known before the registration of the CPA under the PoA); or

Type 2: The identified independent activity or a group of identified independent activities of any capacity which taken together do not exceed 15 MW. The activities will be included in the corresponding CPA ex ante (actual independent activities will be known before the registration of the CPA under the PoA).

Validation methodology and process

The validation has been performed as described in the CDM VVS for PoAs (version 02.0) /B01-1/ and constitutes the following steps:

- Review of the registered PoA-DD /B02/
- Review of the revised PoA-DD /01/
- Desk review of relevant documents;
- Interview with representatives of the CME

Conclusion:

The review of the PoA-DD /01/ and the subsequent follow-up interviews have provided Carbon Check with sufficient evidence to determine the programme of activity fulfilment of all the stated criteria. In our opinion, the CDM programme of activity meets all applicable UNFCCC requirements for the CDM for renewal of the PoA period.

SECTION B. Validation team, technical reviewer and approver

No.	Role		Last name	First name	Affiliation	Ir	nvolve	ment i	n
		Type of resource			(e.g. name of central or other office of DOE or outsourced entity)	Document review	On-site inspection	Interviews	Validation findings
1.	Team Leader / Validator / Technical Expert	IR	Singh	Vikash Kumar	CCIPL	Х	NA	Х	Х

B.2. Technical reviewer and approver of the validation report for renewal of PoA period

No.	Role	Type of	Last name	First name	Affiliation
		resource			(e.g. name of
					central or other
					office of DOE or
					outsourced entity)
1.	Technical reviewer	IR	Anand	Amit	CCIPL
2.	Approver	IR	Anand	Amit	CCIPL

SECTION C. Means of validation

C.1. Desk/document review

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The validation was performed primarily based on the review of the revised PoA-DD /01/ and the supporting documentation. Documents reviewed or referenced during the validation are listed in Appendix 3 below.

C.2. On-site inspection

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No on-site visit was conducted. Validation team has checked the site visit requirements mentioned in the CDM VVS for PoAs, version 02 /B01-1/ and concluded to not conduct a site visit for the validation. Desk review of the submitted revised PoA-DD /01-1/ and supportive evidences was done by the validation team. Validation team conducted remote interviews with the CME representatives on different topics as mentioned in section C.3 below. Also there is no pre-project information that is relevant to the requirements for renewal of the PoA period and may not be traceable after the renewal.

	Duration of on-site inspection: DD/MM/YYYY to DD/MM/YYYY						
No.	No. Activity performed on-site Site location Date Team member						
1.	-	-	-	-			

C.3. Interviews

No.	Interviewee		Date	Subject	Team member	
	Last name	First name	Affiliation			

1.	Gorvashin	Ilva	Blue World	08/04/2020		Vikash Kumar Singh
			Carbon Asset Managemen t (Pty) Ltd		Discussion on the revised PoA- DD	

C.4. Sampling approach

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Not applicable

C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Programme of activities	-		-
Compliance with PoA-DD form	-	-	-
Programme of activities period	-		-
Coordinating/managing entity and the project participants	-	-	-
Post-registration changes	-	-	-
Generic component project activities	-	-	-
Application and selection of methodologies and		CAR-01	-
standardized baselines			
Validity of original baseline or its update	-	-	-
Estimated emission reductions or net anthropogenic	-	-	-
removals			
Validity of monitoring plan	-	-	-
Eligibility criteria for inclusion of CPAs	-	CAR-01	-
Others (please specify)	-	-	-
Total	00	01	00

SECTION D. Validation findings

D.1. Programme of activities

D.1.1. Compliance with PoA-DD form

Means of validation	DR
Findings	
Conclusion	 CCIPL confirms the following: The compliance of the revised PoA-DD /01/ with the valid version of the applicable PoA-DD form including the instructions for completion of the form. This complies to the requirement of § 381 of VVS for PoAs (version 02.0) /B01-1/. CME has used the latest version of the PoA-DD form and assessment team
	 confirms that the information transferred to the latest version of the PoA-DD /01/ is materially the same as that in the latest revised and approved PoA-DD /B02/. This complies to the requirement of § 381 of VVS for PoAs (version 02.0) /B01- 1/. The validation team confirms that the requirements of the CDM-PoA-DD FORM /B04/
	filling guidelines and VVS for PoAs (version 02.0) /B01-1/ have been appropriately met.

D.1.2. Programme of activities period

Means of validation	DR
Findings	
Conclusion	As verified /, the start date of 2 nd PoA period proposed for this PoA is 26/11/2019
	with the length of 7 years i.e. from 26/11/2019 to 25/11/2026. The 2 nd PoA period
	commences on the day immediately after the expiration of the 1 st PoA period and
	hence is in compliance with para 390 (a) (v) of VVS for PoAs, version 02 /B01-1/.

D.1.3. Coordinating/managing entity and the project participants

Means of validation	DR, I
Findings	-
Conclusion	As per the updated PoA-DD /01/, the coordinating/managing entity of the PoA is
	Blue World Carbon Asset Management (Pty) Ltd

D.1.4. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation	Validation r	eport for PRCs
	(Y/N)	Version	Completion
			date
Corrections	NA	NA	NA
Inclusion of monitoring plan	NA	NA	NA
Permanent changes to the registered monitoring plan, or	NA	NA	NA
permanent deviation of monitoring from the applied			
methodologies, standardized baselines, or other			
methodological regulatory documents			
Changes to the programme design	NA	NA	NA
Addition of CPA inclusion template	NA	NA	NA
Changes specific to afforestation and reforestation	NA	NA	NA
activities			
Change of coordinating/managing entity	NA	NA	NA

D.2. Generic component project activities

D.2.1. Application and selection of methodologies and standardized baselines

Means of validation	DR, I
Findings	CAR - 01 has been raised and closed successfully. Please refer to Appendix 4 for
	further details.
Conclusion	Following baseline and monitoring methologies and standardized baseline have been applied in the revised PoA DD:
	 AMS-I.F.: "Renewable electricity generation for captive use and mini-grid" (Version 03);
	 AMS-I.D: "Grid connected renewable electricity generation" (Version 18) ASB0040-2018: Grid emission factor for the Southern African power pool: version 01.0
	The applicability of AMS-I.F (version 03.0) is assessed below:

Applicability criterion	Applicability		A-RCPV-FORM
Applicability criterion This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass that supply electricity to user(s). The project activity will displace electricity from an electricity distribution system that is or would have been supplied by at least one fossil fuel fired generating unit i.e. in the absence of the project activity, the users would have been supplied electricity from one or more sources listed below: a) A national or a regional grid (grid	Applicability	CME justification Each CPA comprises renewable electricity generation, by means of solar electrical systems. Furthermore, electricity will be supplied to users which would have been supplied electricity from the national grid of the RSA.	DOE assessment Validation team based on review of the revised PoA DD /01/ and applied methodology confirms that generic CPAs of the PoA meets this applicability criteria.
 Illustration of respective situations under which each of the methodology (AMS-I.D, AMS-I.F and AMS-I.A) applies is included in Table 3¹. 	Applicable	Each activity which envisages supplying produced electricity to an identified consumer (end user) or the group of consumers, which would have been supplied with electricity from the national grid of the RSA in the absence of the activity, furthermore excess electricity may be supplied to the grid; falls under methodology AMS-I.F. since it displaces grid electricity consumption at the end user.	Validation team based on review of the revised PoA DD /01/ and applied methodology confirms that generic CPAs of the PoA meets this applicability criteria.
 Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology: The project activity is implemented in an existing reservoir with no change in the volume of reservoir; The project activity is implemented in an existing reservoir; The project activity is implemented in an existing reservoir; where the volume of reservoir is increased and the power density of the project activity, as per definitions given in the project 	Not applicable	Any CPA is not the installation of a hydro power plant, so it does not need to satisfy this applicability condition.	N/A

		CDIVI-F07	A-RCPV-FORM
 emissions section, is greater than 4 W/m²; The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m². 			
This methodology is applicable for project activities that: (a) Install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity (Greenfield plant); (b) Involve a capacity addition, (c) Involve a retrofit of (an) existing plant(s); or (d) Involve a replacement of (an) existing plant(s).	Applicable	Each independent activity under the PoA envisages either: (a) Installing a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity; or (b) Involves a capacity addition.	Validation team based on review of the revised PoA DD /01/ and applied methodology confirms that generic CPAs of the PoA meets this applicability criteria.
In the case of project activities that involve the capacity addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct from the existing units.	Applicable	In case the independent activity involves the capacity addition, the added capacity will be lower than 15 MW according the eligibility criteria (5) and be physically distinct from the existing units.	Validation team based on review of the revised PoA DD /01/ and applied methodology confirms that generic CPAs of the PoA meets this applicability criteria.
In the case of retrofit or replacement, to qualify as a small-scale project, the total output of the retrofitted or replacement unit shall not exceed the limit of 15 MW.	Not applicable	Each independent activity under the PoA does not involve retrofit or replacement of an existing facility, so it does not need to satisfy this applicability condition.	N/A
If the unit added has both renewable and non- renewable components (e.g. a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the unit added co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW.	Not applicable	Any CPA does not have non-renewable components, so it does not need to satisfy this applicability condition.	N/A
Combined heat and power (co-generation) systems are not eligible under this category.	Not applicable	Any CPA does not involve co-generation. According to the AMS- I.F., the CPA must not satisfy this applicability condition.	N/A

If electricity and/or steam/heat produced by the project activity is delivered to a third party i.e. another facility or facilities within the project boundary, a contract between the supplier and consumer(s) of the energy will have to be entered that ensures that there is no double counting of emission reductions.	Applicable	In case electricity produced by the independent activity under the CPA is delivered to a third party a contract between the supplier and consumer(s) of the energy will be signed. See eligibility criterion (2).	Validation team based on review of the revised PoA DD /01/ and applied methodology confirms that generic CPAs of the PoA meets this applicability criteria.
In case biomass is sourced from dedicated plantations, the applicability criteria in the tool "Project emissions from cultivation of biomass" shall apply.	Not applicable	Any CPA does not involve using biomass, so it does not need to satisfy this applicability condition.	N/A

The applicability of AMS-I.D (version 18.0) is assessed below:

Applicability criterion	Applicability	CME justifications	DOE assessment
 This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass: a) Supplying electricity to a national or a regional grid; or b) Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling. 	Applicable	Each CPA comprises renewable electricity generation, by means of solar electrical systems. Furthermore electricity will be supplied to the national electricity grid of the RSA.	Validation team based on review of the revised PoA DD /01/ and applied methodology confirms that generic CPAs of the PoA meets this applicability criteria.
Illustration of respective situations under which each of the methodology (i.e. "AMS-I.D.: Grid connected renewable electricity generation", "AMS-I.F.: Renewable electricity generation for captive use and mini-grid" and "AMS-I.A.: Electricity generation by the user) applies is included in the appendix ² .	Applicable	Each activity which envisages produced electricity to be supplied to the national electricity grid of the RSA, falls under methodology AMS- I.D. since it supplies electricity to the national grid.	Validation team based on review of the revised PoA DD /01/ and applied methodology confirms that generic CPAs of the PoA meets this applicability criteria.

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This methodology is applicable for project activities that: (a) Install a Greenfield plant; (b) Involve a capacity addition in (an) existing plant(s), (c) Involve a retrofit of (an) existing plant(s); or (d) Involve a replacement of (an) existing plant(s)/units(s); or (e) Involve a replacement of (an) existing plant(s).	Applicable	Each independent activity under the PoA envisages either: (a) Install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity; or (b) Involve a capacity addition.	Validation team based on review of the revised PoA DD /01/ and applied methodology confirms that generic CPAs of the PoA meets this applicability criteria.
 Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology: The project activity is implemented in an existing reservoir with no change in the volume of reservoir; The project activity is implemented in an existing reservoir; The project activity is implemented in an existing reservoir; is increased and the power density of the project activity, as per definitions given in the project activity results in new reservoirs and the power density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m²; 	Not applicable	Any CPA is not the installation of a hydro power plant, so it does not need to satisfy this applicability condition.	N/A
If the new unit has both renewable and non- renewable components (e.g. a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW.	Not applicable	Any CPA does not have non-renewable components, so it does not need to satisfy this applicability condition.	N/A
Combined heat and power (co-generation) systems are not eligible under this category.	Not applicable	Any CPA does not involve co-generation. According to the AMS-I.D., the CPA must not satisfy this applicability condition.	N/A

In the case of project activities that involve the capacity addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct from the existing units.	Applicable	independent acti involves the capa addition, the add capacity will be low than 15 M according eligibility criteria and be physic	city of the revised ded PoA DD /01/ and wer applied MW methodology the confirms that (5) generic CPAs of
In the case of retrofit or replacement, to qualify as a small-scale project, the total output of the retrofitted or replacement power plant/unit shall not exceed the limit of 15 MW.	Not applicable	Each independ activity under the F does not invo retrofit or replacem of an existing faci so it does not need satisfy applicability conditi	PoA plent lity, d to this
In the case of landfill gas, waste gas, wastewater treatment and agro- industries projects, recovered methane emissions are eligible under a relevant Type III category. If the recovered methane is used for electricity generation for supply to a grid then the baseline for the electricity component shall be in accordance with procedure prescribed under this methodology. If the recovered methane is used for heat generation or cogeneration other applicable Type-I methodologies such as "AMS-I.C.: Thermal energy production with or without electricity" shall be explored.	Not applicable	Landfill gas, wa gas, wastewa treatment and ag industries projects not eligible under PoA, so it does need to satisfy applicability conditi	ater gro- are this not this
In case biomass is sourced from dedicated plantations, the applicability criteria in the tool "Project emissions from cultivation of biomass" shall apply	Not applicable	Biomass projects not eligible under PoA, so it does need to satisfy applicability conditi	this not N/A this
In the revised PoA-DD /0 ASB0040-2018: Grid emiss 01.0) The applicability of the star	sion factor for t	he Southern Africa	an power pool (version
ASB0040-2018: SI. emission factor fo No. Southern African p pool (Version 01.0)	C M	E justification	DOE assessment

				M-POA-RCPV-FURM
	1	 a) The project activity is implemented in any one of following countries, which are the SAPP member countries, and is connected to the SAPP: (i) Republic of Botswana; (ii) Democratic Republic of Congo; (iii) Kingdom of Lesotho; (iv) Republic of Mozambique; (v) Republic of South Africa; (vii) Kingdom of Swaziland; (viii) Republic of Zambia, and (ix) Republic of Zimbabwe 	All activities under the CPA are located in the RSA as per Eligibility Criterion 1 and is connected to the grid as per Eligibility Criterion 3	The Validation team has reviewed the included CPA 7484- P1-0001-CP1 under this PoA and confirm that this is located within the geographical boundaries of the RSA
	2	3 (b) The CDM approved methodology that is applied to the project activity requires the determination of CO ₂ emission factor(s) through the application of the grid tool	AMS-I.F. refers to procedures provided in AMS-I.D. to calculate the grid emission factor (paragraph 19). AMS-I.D. refers to Tool to calculate the emission factor for an electricity system to calculate the grid emission factors (paragraph 22).	Review of Section I.6.1 of PoA DD reveals that CME has followed AMS-I.D. which refers Tool to calculate the emission factor for an electricity system to calculate the grid emission factors and calculated the Combined margin CO ₂ emission factor for the grid connected power generation in year y. Thus, validation team confirms project complies with the same.
	3	3 (c) The project activity uses the ex-ante options for both the operating margin and build margin grid emissions factors, as described in the grid tool, and therefore no monitoring or recalculation of the emission factor during the crediting period is required.	The ex-ante options for both the operating margin and build margin grid emissions factors are used.	Review of Section I.6.1 of PoA DD reveals that CME has taken ex- ante options for both the operating margin and build margin grid emissions factors according to the procedures prescribed in the "Tool to calculate the Emission Factor for an electricity system. Thus, validation team confirms project complies with the same.
	4	The latest approved and valid values of this standardized baseline are the only values of the CO2 emission factor(s) that shall be applied for the project electricity system in the SAPP member countries listed under sub-para 3(a) above	The Standardized Baseline is valid till 06/10/2021 (later that the completion date of the PoA-DD).	Review of revised PoA DD reveals that CME has used latest approved and valid values of this standardized baseline are the only values of the CO2 emission factor latest approved and valid values of this standardized baseline are the only values of the CO2 emission factor.
b 0 5	baselii)3.0) Southe	oA/Generic CPA part of the ne and monitoring method and Standardized baseline ern African power pool (ver applied methodology and	ology AMS-I.D (version 1 e: ASB0040-2018: Grid e sion 01.0) /B03/. CME has	8.0), AMS-I.F (version emission factor for the used the valid version

	criteria will again be demonstrated at the CPA level where the actual project
	implementation takes place. Hence the selected version of the standardized
	baseline is appropriate for this PoA/Generic CPA part of the PoA-DD.

D.2.2. Validity of original baseline or its update

Means of validation	DR, I		
Findings Conclusion	- In accordance to paragraph DOE shall assess the vali assessment of the following	dity of the original baselin	
	(a) The impact of new relev on the baseline taking into a renewal of PoA period of a re of the PoA period;	account relevant guidance fi	rom the Board with regard to
	(b) The correctness of the applicable, the approved s regulatory documents for th or its update, and the estim GHG removals for the applic	standardized baselines and e determination of the conti ation of GHG emission redu	d the other methodologica inued validity of the baseline
	Furthermore, as per paragra requirements contained in pa- using the valid version of standardizes the baseline Standardized baseline: ASB power pool (version 01.0) /B	aragraph 382 (a) above sha an applicable approved scenario, which is the cas 0040-2018: Grid emission fa	Il not apply to a generic CPA standardized baseline tha se here since CME applies
	In accordance to paragraph validation team reviewed the application of the approved r and the other methodologic continued validity of the bas net anthropogenic GHG rem the proect stadnartd for PoA	e revised PoA-DD /01/ to a methodologies and the appr cal regulatory documents f eline and the estimation of ovals for the applicable PoA	ssess the correctness of the oved standardized baselines for the determination of the GHG emission reductions of
	"To demonstrate the val coordinating/managing enti- Instead, the coordinating/m GHG emission reductions resulted from that scenario. baseline, that were determin no longer valid, the coord parameters in accordance v of the original/current base crediting period"."	ty is not required to re-as anaging entity shall assess or net anthropogenic GHG If data and parameters use ed ex-ante and not monitore linating/managing entity si vith the "Methodological too	sess the baseline scenario s the modalities to calculate c removals that would have d for determining the origina ed during the PoA period, are hall update such data and l: Assessment of the validity
	For the PoA under consider applying small scale methor 17.0). During the 2 nd Rener applied methodologies and a emission factor for the Sout team confirms that data and crediting period and not more the ex-anter parameter which baseline i.e. ASB0040-2018	dology, AMS-I.F (version C ewal period, PoA has applie also applied Standardized ba hern African power pool (ve parameters that were only nitored during the crediting ch is updated in accordance	22.0) and AMS-I.D (version ed valid latest version of the aseline: ASB0040-2018: Grid ersion 01.0) /B03/. Validation determined at the start of the period are still valid excep
	Ex-ante Paramter	During 1 st PoA Period	During 2 nd PoA Period

Value for EF _{grid,CM} has been adopted from the latest version of the applied Standardized baseline, i.e. Grid emission factor for Southern African Power Pool (version 01.0) /B03/ and hence deemed acceptable.
The validation team took cognizance of §287-292 of PS for PoAs, version 02 /B01- 2/ and §382-383 of VVS for PoAs (version 02.0) /B01-1/.

D.2.3. Estimated emission reductions or net anthropogenic removals

Means of validation	DR, I		
Findings	-		
Conclusion	Validation team has checked the modalities for the calculation of the GHG emission reductions in the generic CPA part of the revised PoA-DD /01/ in accordance with the applied version of the methodology, i.e. AMS-I.F (version 3.0) and AMS-I.D (version 18.0) /B03/. The parameters and equations presented in the PoA-DD /01/ have been compared with the information and requirements presented in the methodology /B03/ and other applicable methodological tools.		
	The validation team confirms that:		
	 All assumptions and data used by the CME are listed in the generic CPA part of the PoA-DD, including their references and sources; All documentation used by CME as the basis for assumptions and source of data are correctly quoted and interpreted in the PoA-DD; 		
	 All values used in the PoA-DD are considered reasonable in the context of the proposed PoA; 		
	• The baseline methodology has been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions;		
	 All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PoA-DD. 		
	The validation team took cognizance §390 (a) (iv) of VVS for PoAs, version 02.0 /B01-1/.		

D.2.4. Validity of monitoring plan

Means of validation	DR, I						
Findings	-	<u> </u>					
Conclusion	compliance wi	The monitoring plan in the generic CPA part of the revised PoA-DD /01/, is in compliance with the applied methodology AMS-I.F (version 3.0) and AMS-I.D (version 18.0) /B03/. The project was originally registered applying small scale					
	methodology A period, valid ve	MS-I.F rsion i.e.	(version 2.0) and AMS-I.D (version version 3.0 and 18.0 of the same me	17.0). For the 2 nd PoA ethodology AMS-I.F and			
	AMS-I.D have been applied and the monitoring plan of the same has been adopted. CME has adopted the following monitoring parameters in the revised PoA-DD as per the applied methodology, AMS-I.F (version 3.0) and AMS-I.D (version 18.0):						
	Parameter	Data unit	Description	Monitoring Frequency			
	EG ^a _{Solar systems, y}	MWh	Net quantity of electricity supplied to end users from all independent activities (solar electrical systems installed) under the CPA in year y	Continuously			
	<i>EG</i> ^b _{Solar systems, y} MWh Net quantity of electricity supplied to the national grid of the RSA from all independent activities (solar electrical systems installed) under the CPA in year y						
	P ^{<i>a</i>} _{Solar system, y} MW Total capacity of all independent Continuous monitoring activities which supply electricity to at least monthly end users under the CPA in year y						
	P ^b _{Solar system, y}	MW	Total capacity of all independent activities which supply electricity to the national grid of the RSA under the CPA in year y	Continuous monitoring, at least monthly recordings			

Validation team can confirm that the parameters to be determined ex-post have been
presented correctly and according to requirements of the applied methodology AMS-
I.F (version 03.0) and AMS-I.D (version 18.0) and that CME shall be able to monitor
and report emission reductions ex-post.

D.2.5. Eligibility criteria for inclusion of CPAs

Means of validation	DR, I					
Findings	CAR-01had been raised and closed successfully. Please refer to Appendix 4 for further details.					
Conclusion	The CME has outlined clear and unambiguous eligibility criteria for the inclusion future CPAs under the PoA in section K of the PoA-DD /01/. Validation team confi that the eligibility criteria for inclusion of corresponding CPAs in the PoA are updat by the CME in accordance with the applicable validation requirements related to t renewal of programme of activities period in the CDM VVS for PoAs, (version 02 /B01-1/ and the applied methodology AMS-I.F (version 03.0) and AMS-I.D (versi 18.0) /B03/.					
	SI. No.	Eligibility criterion - Category	Eligibility criterion - Required condition	Supporting evidence for inclusion	DOE Assessment	
	1.	The geographical boundary of the CPA including any time-induced boundary consistent with the geographical boundary set in the PoA	1. The CPA (type 1 and type 2) shall be located within the geographical boundaries of the RSA	1. For CPA Type 1: the signed form from the owner of activity to be included into the CPA providing the following information: Name, address, GPS coordinates (Management system, Table 6) and Power Purchase Agreement (if applicable) For CPA Type 2: the signed form from the owner of activity to be included into the CPA providing the following information: Name, address, GPS coordinates (Management system, Table 6) and Environmental Authorisation (EA) from the relevant Competent Authority (CA) of the RSA (if applicable) and Power Purchase Agreement (if applicable) and Power Purchase Agreement (if applicable) and Power Purchase Agreement (if applicable)	According to §124 (a), of the Project Standrad for PoA, version 2.0, the geographical boundary of each CPA, shall be consistent with the geographical boundary set in the PoA. The PoA boundary is set as RSA. Validation team based on review of PoA-DD/01/ confirms that the eligibility criterion is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.	
	2.	Conditions that avoid double counting of emission	2. For CPA Type 1: the seller of solar electrical	2. For CPA Type 1: the signed form from the owner of activity	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs in line with §124 (b) of	

			CDM-PoA-RCPV-FORM
reductions like	system (or	to be included	the Project Standard for PoA,
unique	nominated	into the CPA as	version 2.0. Validation team
identifications	CER buyer	per Table 6 of	based on review PoA-DD /02/
of product and	or other	the	confirms that the eligibility
end-user	nominated	Management	criteria is defined in
locations (e.g.	party) for		accordance with the project
programme	each activity	agreement with	standard.
			Stanuaru.
logo)	shall provide	· · · · ·	Furthermore, the eligibility
	the signed	nominated CER	
	Table 6 of		criterion- category, including
	the	nominated	the conditions provide
	Management	party).	sufficient information for the
	System of		corresponding CPAs.
	the PoA and	the signed form	
	agreement	from the owner	The description in the PoA-
	with the	of activity to be	DD including the supporting
	owner of		evidence for inclusion
	activity	CPA as per	provides information to meet
	where he	Table 6 of the	the requirement and is
	shall	Management	verifiable as well as
	contractually	system and	sufficiently objective and
	agree and	agreement with	comprehensive to permit the
	sign the	the CME and	assessment of the inclusion
	following	declaration from	of corresponding CPAs in the
	before	BWC.	PoA.
	inclusion into		
	the CPA:		
	a) The		
	activity has		
	neither been		
	and will not		
	be registered		
	as a CDM		
	project		
	activity nor		
	as a CPA		
	under		
	another PoA;		
	and		
	b) The		
	owner is		
	aware that		
	the activity will be		
	subscribed to		
	the present		
	PoA.		
	For CPA		
	Type 2: the		
	owner of		
	each activity		
	shall provide		
	the signed		
	Table 6 of		
	the		
	Management		
	System of		
	the PoA and		
	agreement		
	with CME		
	where he		
	shall		
	contractually		
	agree and		
	sign the		
	following		
	before		
	inclusion into		
	the CPA:		

 -				CDM-POA-RCPV-FORM
		a) The activity has neither been and will not be registered as a CDM project activity nor as a CPA under another PoA; and b) The owner is aware that the activity will be subscribed to the present PoA. Moreover for CPA Type 2, BWC shall check the UNFCCC CDM project database to verify that each activity to be included in the proposed CPA, has not been previously submitted to the UNFCCC, before inclusion into the CPA, as well as		
3.	The specifications of technology/me asure including the level and type of service, performance specifications including	provide a declaration for the same. 3. Technology: Each activity to be included into the CPA (type 1 and type 2) shall only use solar PV systems. For CPA type 1: the installed capacity of each activity	3. Technology: For both CPA types: Technical specification from the seller of the electrical system/ technology supplier. Services: for grid-connected systems (both CPA types): PPA with the relevant	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements and applicability conditions prescribed by the methodology, as well as §124 (d) including foot note 23 and 24 and 124 (f) of the Project Standard for PoA, version 2.0. All CPAs shall apply the technology/measure for
	including compliance with testing/certifica tions	each activity shall be equal or less than 0.15 MW. For CPA type 2: the installed capacity of the CPA shall be	authority as per the host country; For captive users: signed Table 6 of the Management system of the PoA from the owner of the activity.	technology/measure for AMS-I.D. or AMS-I.F. or combination of both. Validation team based on review of PoA-DD /02/ confirms that the eligibility criterion is defined in accordance with the project standard.

				CDM-PoA-RCPV-FORM
		equal or less	For identified	Furthermore, the eligibility
		than 15 MW.	consumer:	criterion - category, including
		Services:	signed Table 6	the conditions provide
		Electricity	of the	sufficient information for the
		generation.	Management	corresponding CPAs.
		Measure for		g
		AMS-I.D. or	PoA/contract	The description in the PoA
		AMS-I.F. or	(between seller	DD including the supporting
		combination	and end user)	evidence for inclusion
		of both: GHG	from the owner	provides information to meet
		emission	of the activity.	the requirement and is
		reduction	For identified	· · · · · · · · · · · · · · · · · · ·
		due to	consumer using	sufficiently objective and
		displacemen	AMS-I.F.:	comprehensive to permit the
		t of grid	Electricity bill or	assessment of the inclusion
		electricity.	proof of pre-paid	of corresponding CPAs in the
		Each activity	electricity from	PoA.
		under the	the owner.	
		CPA (type 1	Measure: For	
		and type 2)	AMS-I.D.: GHG	
		shall be	emission	
		connected to	reduction due to	
		either:	the supply of	
		i) An	electricity to the	
		identified	grid.	
		consumer	For AMS-I.F.:	
		(end user) or	GHG emission	
		group of	reduction due to	
		consumers,	the	
		which would	displacement of	
		have been	electricity which	
		supplied with	would have	
		electricity	been generated	
		from the	in the grid and	
		national grid	consumed by	
		of the RSA in	the user in	
		the absence	absence of the	
		of the activity	Solar PV	
		(where	technology, as	
		excess	per a CPA of	
		electricity	this PoA; excess	
		may be	electricity under	
		supplied to	this	
		the grid) or;	methodology	
		ii) to the	would also be	
		national grid	supplied to the	
		of the RSA	grid.	
		Furthermore	Hence, the	
		the owner of	measure would	
		each activity	primarily remain	
		under the	the same in case	
		CPA	of both the	
		cpa connected to	methodologies	
		(i) and using	and usage of the combination of	
		methodology		
		AMS-I.F.	the above-	
		shall be	mentioned	
		connected to	methodologies	
		the grid	in the same CPA	
		before the	under this PoA	
		activity	shall not result in	
		implementati	any cross-	
		on.	effects. This	
			combination is	
			also allowed as	
			explained in	
			section I.3 of this	
	0	. Ti	section I.3 of this PoA.	
4.	Conditions to check the start	4. The start date of the	section I.3 of this	Validation team confirms that this eligibility criterion has

				CDM-PoA-RCPV-FORM
	date of the CPA through documentary evidence	activity under CPA (type 1 and type 2) shall be after the date of start of global stakeholder process for	contract with a seller of the solar electrical	been sufficiently set for all CPAs inline with the requirements §124 (e) of the Project Standatd for PoA, version 2.0. The start date of a CPA shall be on or after the PoA start date.
		the PoA (23/12/2011)		Validation team based on review of PoA-DD /01/ confirms that the eligibility criterion is defined in accordance with the project standard.
				Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs.
				The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the
			5. For both CPA	assessment of the inclusion of corresponding CPAs in the PoA. Validation team confirms that
			types: Technical specification from the seller of the electrical system/technolo gy supplier and PPA with the	this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (f) and §124 (h) of the Project Standard for PoA, version 2.0.
	Conditions that ensure compliance with	5. Both CPA type 1 and type 2 shall meet the applicability conditions and other		Both CPAs type 1 and type 2 shall meet the applicability conditions and other requirements of either AMS- I.D. (version 18) or AMS-I.F. (version 0) or combination of both methodologies.
5.	applicability and other requirements of single or multiple methodology/i es applied by	requirements of either AMS-I.D. (version 18) or AMS-I.F. (version 3.0) or	PoA from the owner of the activity. For identified consumer: signed Table 6 of the	Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard.
	CPAs	combination of both methodologi es.	Management system of the PoA/contract (between seller and end user) from the owner of the activity.	Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs.
			For identified consumer using AMS-I.F.: Electricity bill or proof of pre-paid electricity from the owner.	The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the

				CDM-POA-RCPV-FORM
				assessment of the inclusion of corresponding CPAs in the PoA.
6.	The conditions that ensure that CPAs meet the requirements pertaining to the demonstration of additionality as specified in Section C above	 6. Each and every CPA to be included into this PoA has to employ the solar technologies as per eligibility criteria 3. This criterion also states that "Each activity under the CPA (type 1 and type 2) shall be connected to either: An An identified consumer (end user) or group of consumers, which would have been supplied with electricity from the national grid of the RSA in the absence of the activity (where excess electricity may be supplied to the grid) or; to the national grid of the RSA" 	6.Technology/m easure: For both CPA types: Technical specification from the seller of the electrical system/ technology supplier. Services: for grid-connected systems (both CPA types): PPA with the relevant authority as per the host country; For captive users: signed Table 6 of the Management system of the POA from the owner of the activity and Electricity bill or proof of pre-paid electricity from the owner. For identified consumer: signed Table 6 of the Management system of the PoA/contract (between seller and end user) from the owner.	The CME has not reassessed the additionality of the PoA at the time of the renewal of the PoA period, as per paragraph 285 of the CDM-EB93-A07-STAN Standard: CDM Project Standard for Programmes of Activities (version 02.0), but updated this section and the eligibility criterion 6 based on the new versions of the methodological tools /B07/. Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs as per §124 (g) (iii) of the Projcet Standrd for PoA, version 2.0. All CPAs shall be additional to be included in the PoA provided they meet this eligibility criterion of the PoA. This is adequately prescribed in the PoA-DD. Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
7.	The PoA- specific requirements stipulated by the CMEs including any conditions related to undertaking local stakeholder consultations and environmental	7. For CPA (type 1 and type 2) environment al impact assessment shall be carried out in line with NEMA regulation	7. For both CPA types: EIA or basic assessment along with environmental authorisation (if applicable).	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (i) of the Pojec Sandad for PoAs, vesion 2.0. All CPAs utilizing this generic CPA-DD shall apply EIA or basic assessment along with environmental authorisation (if applicable).

				CDM-PoA-RCPV-FORM
	impact analysis			Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard.
				Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs.
				The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
				Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (j) of the Pojec Sandad for PoAs, vesion 2.0.
	Conditions to	8. No official	8. For CPA type	All CPAs utilizing this generic CPA-DD shall comply that no official Development Aid shall be involved or diverted as a result of activities under the CPA (type 1 and type 2).
8.	provide an affirmation that funding from Annex I party, if any, does not result in a diversion of	Developmen t Aid shall be involved or diverted as a result of activities under the	1: The declaration from the seller or the owner of the solar electrical system. For CPA type 2:	Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard.
	official development assistance	CPA (type 1 and type 2).	The declaration from the owner of the activity	Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs.
				The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
9.	8. For CPA type 1: The declaration from the seller or the owner of the solar	9. For both CPA types where applicable, target group (e.g. domestic/co	9. Since this requirement has particularly been reflected in eligibility criterion (3), no supplementary	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (k) of the Pojec Sandad for PoAs, vesion 2.0.

 				CDM-POA-RCPV-FORM
	electrical system. For CPA type 2: The declaration from the owner of the activity Where applicable, target group (e.g. domestic/ commercial/ind ustrial, rural /urban, grid- connected/ off-grid) and distribution mechanisms (e.g. direct installation)	mmercial/ industrial, rural/urban, grid- connected/of f-grid) and distribution mechanisms (e.g. direct installation) shall be identified in accordance with applied methodologi es i.e., either AMS-I.D. (version 18) or AMS-I.F. (version 03) or combination of both methodologi es.	evidence required	All CPAs utilizing this generic CPA-DD shall comply the target group and distribution mechanism. Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
10.	Where applicable, the conditions related to sampling requirements for a PoA in accordance with the approved guidelines/ standard from the Board pertaining to sampling and surveys	10. For CPA (type 1 and type 2) sampling requirements shall be assessed and carried out in line with requirements of Annex 4 & 5 of EB 69.	10. This PoA and CPA do not use the sampling method for monitoring, therefore no supplementary evidence is required.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (I) of the Pojec Sandad for PoAs, vesion 2.0. However, this PoA and CPA do not use the sampling method for monitoring, therefore no supplementary evidence is required. Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard.
11.	Where applicable, the conditions that ensure that CPA in aggregate meets the small-scale or micro-scale threshold criteria and remains within those thresholds throughout the crediting period of the CPA	11. For both CPA types where applicable, the conditions that ensure that CPA in aggregate meets the small-scale threshold criteria and remains within those thresholds throughout the crediting period of the	11. Since this requirement has particularly been reflected in eligibility criterion (3), no supplementary evidence required. In addition, the total capacity of all independent activities included into the CPA is monitored throughout the crediting period of the CPA.	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (m) of the Pojec Sandad for PoAs, vesion 2.0. All CPAs utilizing this generic CPA-DD shall ensure that CPA in aggregate meets the small-scale threshold criteria and remains within those thresholds throughout the crediting period of the CPA shall be assessed. Validation team based on review of PoA-DD /01/ confirms that the eligibility

				CDM-PoA-RCPV-FORM
		CPA shall be assessed.		criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs.
				The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
				Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (m) of the Pojec Sandad for PoAs, vesion 2.0.
	Where applicable, the requirements	12. For CPA (type 1 and type 2) debundling checks shall be performed	12. For both CPA types: confirmation in CPA-DD that the SSC-CPA is not	All CPAs utilizing this generic CPA-DD shall be performed in line with TOOL20 Methodological tool: Assessment of debundling for small-scale project activities (Version 04.0). Validation team based on
12.	for the debundling check, in case CPAs belong to small-scale (SSC) or	in line with TOOL20 Methodologi cal tool: Assessment of	a debundled component of a large scale CPA or CDM project activity	review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard.
	microscale project categories	debundling for small- scale project activities (Version	For CPA type 2: the declaration from the owner of the activity and the CME	Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs.
		04.0).		The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
13.	The conditions related to leakage for activities within a CPA	13. For both CPA types leakage shall be assessed and carried out in accordance with applied methodology	13. For both CPA types: Signed equipment purchase contract with a seller of the solar electrical system or	Validation team confirms that this eligibility criterion has been sufficiently set for all CPAs inline with the requirements §124 (n) of the Pojec Sandad for PoAs, vesion 2.0.

			CDIM-POA-RCPV-FORM
Validation team confir	or methodologi es i.e., either AMS-I.D. (version 18) or AMS-I.F. (version 03) or combination of both methodologi es, as shown in Table I.2-1 and I.2-2 in the PoA-DD.	technology provider and signed Table 6 of the Management system of the PoA from the owner of the activity.	All CPAs utilizing this generic CPA-DD shall be assessed and carried out in accordance with applied methodology or methodologies i.e., either AMS-I.D. (version 18) or AMS-I.F. (version 03) or combination of both methodologies, as shown in Table I.2-1 and I.2-2 in the PoA-DD. Validation team based on review of PoA-DD /01/ confirms that the eligibility criteria is defined in accordance with the project standard. Furthermore, the eligibility criterion – category, including the conditions provide sufficient information for the corresponding CPAs. The description in the PoA- DD including the supporting evidence for inclusion provides information to meet the requirement and is verifiable as well as sufficiently objective and comprehensive to permit the assessment of the inclusion of corresponding CPAs in the PoA.
comprehensive to per Furthermore, the valid	mit the asses ation team cor	sment of the inclusion of the inclusion of the second second second second second second second second second s	

SECTION E. Internal quality control

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The final validation report passed a technical review and quality review before being submitted to the project participant and UNFCCC Executive Board. A technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification performed the technical review.

SECTION F. Validation opinion

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The CME, Blue World Carbon Asset Management (Pty) Ltd, has appointed the DOE, Carbon Check (India) Private Ltd., (CCIPL) to perform the validation of the Renewal of the PoA period for the PoA "Small-scale solar electrical programme, South Africa" /B02/.

The validation was performed in accordance with the UNFCCC criteria for the Clean Development Mechanism, latest version of Validation and Verification Standard and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The programme of activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change, as stated in the generic CPA-DD. In the opinion of the validation team, the programme of activity meets all relevant UNFCCC, CDM criteria and all relevant host country criteria.

Version 02.0

The review of the PoA-DD /01/ and the subsequent follow-up interviews have provided validation team with sufficient evidence to determine the validity of the original baseline and/or its update through an assessment. The PoA-DD /01/ correctly applies the small scale methodology AMS-I.F. version 3.0, and AMS-I.D. version 18.0 /B03/. The monitoring arrangements described in the monitoring plan are feasible within the PoA-DD, and it is validation team's opinion that the CME/CPA Implementer are able to implement the monitoring plan.

During the course of validation one (01) CARs was identied on initially submitted revised PoA-DD /01/. All the CARs has been resolved by the CME.

In summary, it is validation team's opinion that the CDM programme of activity "Small-scale solar electrical programme, South Africa" (UNFCCC Reference number 7484) meets all relevant UNFCCC requirements for the renewal of the PoA period. Hence CCIPL requests the renewal of CDM programme of activities period.

Appendix 1. Abbreviations

Abbreviations	Full Texts		
BE	Baseline Emission		
CAR	Corrective Action Request		
CCIPL	Carbon Check (India) Private Ltd.		
CDM	Clean Development Mechanism		
CDM EB	CDM Executive Board		
CER	Certified Emission Reduction		
CPA	Component Project Activity		
CPA-DD	Component Project Activity Design Document		
CL	Clarification Request		
CME	Co-ordinating or Managing Entity		
CO ₂	Carbon Dioxide		
CO ₂ e	Carbon Dioxide Equivalent		
COP/MOP	Conference of Parties/ Meeting of Parties		
DNA	Designated National Authority		
DOE	Designated Operational Entity		
DR	Document Review		
EB	Executive Board		
ER	Emission Reduction		
FAR	Forward Action Request		
GHG	Greenhouse Gas		
GWh	Giga Watt Hours		
I	Interview		
kW	Kilo Watt		
kWh	Kilo Watt Hours		
MoV	Means of Verification		
MoC	Modalities of Communications		
MW	Mega Watt		
MWh	Mega Watt Hours		
ODA	Official Development Assistance		
OSV	On-Site Visit		
PE	Project Emission		
PoA	Programme of Activities		
PoA-DD	Programme of Activities design document		
PP	Project Participant		
PS	Project Standard		
t	Tonne		
UNFCCC	United Nations Framework Convention on Climate Change		
VT	Validation team		
VVS	Validation and Verification Standard		

Appendix 2. Competence of team members and technical reviewers

Carbon Chec	Check Check ck (India) Private Ltd.
	h Kumar Singh
VIKdSI	i Kumar Singn
has been qualified as per CCIPL's internal of Accreditation Standard (version 07.0):	qualification procedures, in accordance with requirements
For	following functions:
Validator 🖾 Team Le Verifier 🖾 Technic	eader 🛛 Technical reviewer 🖾 al Expert 🖾 Local Expert ¹ 🖾
In the fo	ollowing Technical Areas:
TA 1.1 ☑ TA 3.1 ☑ TA 1.2 ☑ TA 4.1 ☑ TA 2.1 □ TA 5.1 □	TA 5.2 TA 9.2 TA 13.2 \boxtimes TA 8.1 TA 10.1 TA 14.1 \square TA 9.1 TA 13.1 \boxtimes \bigwedge
	Mr. Amit Anand CEO
Data of Assessed	14 - 14 d 7711
Date of Approval 24/12/2019	Valid Till 23/12/2020
Revision H 26/12/2014	istory of the Document Initial Adoption
24/12/2015 20/01/2016 23/12/2016 24/12/2017 24/12/2018 24/12/2019	Annual Revision Interim Revision for office address change Annual Revision Annual Revision Annual Revision Annual Revision
¹ India, South Africa	
CARBON CHE Registered in Ir Regd. Off: 2071/38, 2 nd Flo	CK (INDIA) PRIVATE LIMITED Idia: U74930DL2012PTC232495 or, Naiwala, Karol Bagh, New Delhi - 110005 oor, Sector – 3, NOIDA (Uttar Pradesh) – 201301

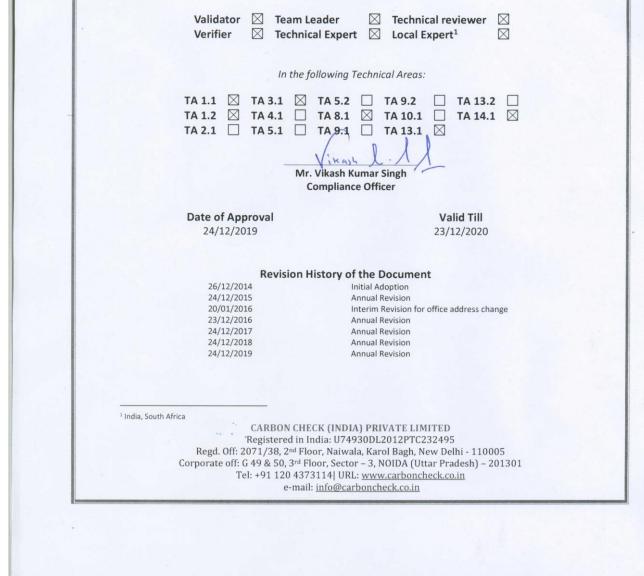


Carbon Check (India) Private Ltd.

Amit Anand

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:



Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	CME	 Initial PoA-DD interim revised PoA DD interim revised PoA DD interim revised PoA DD Final PoA DD 	Version 09.0 dated: 15/03/2020 Version 9.1 dated: 13/04/2020 Version 10 dated: 09/07/2020 Version 11 dated: 05/08/2020 Version 12 dated: 24/09/2020	CME
/B01/	UNFCCC	 CDM VVS for PoAs (Version 02.0). CDM PS for PoAs (Version 02.0) CDM PCP for PoAs (Version 02.0) 	http://cdm.unfccc.int/	Others
/B02/	UNFCCC	Registered PoA-DD, version 8, 12/11/2012 and the corresponding validation report for the PoA "Small-scale solar electrical programme, South Africa", having UNFCCC Ref. No. 7484	http://cdm.unfccc.int/	Others
/B03/	UNFCCC	 AMS-I.F. Renewable electricity generation for captive use and mini-grid (version 3.0) AMS-I.D. Grid connected renewable electricity generation (version 18.0) ASB0040-2018: Grid emission factor for the Southern African power pool (version 01.0) 	http://cdm.unfccc.int/	Others
/B04/	UNFCCC	Programme design document form for CDM programmes of activities (CDM-PoA-DD-FORM) (Version 09)	http://cdm.unfccc.int/	Others
/B05/	UNFCCC	Glossary of CDM Terms, version 10.0	http://cdm.unfccc.int/	Others
/B06/	UNFCCC	Methodological Tool 11: "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period', version 03.0.1	http://cdm.unfccc.int/	Others
/B07/	UNFCCC	TOOL21- Methodological tool- Demonstration of additionality of small- scale project activities, Version 13.1 TOOL32- Methodological tool- Positive lists of technologies Version 02.0	http://cdm.unfccc.int/	Others

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

CL ID	XX	Section no.	Date:			
Description	Description of CL					
CME's resp	CME's response Date: DD/MM/YYYY					
Documentation provided by CME						
DOE assessment Date: DD/MM/YYY						

Table 2.CARs from this validation

CAR I) 01		Section no.	D.2.1 & D.2.5	Date: 10/04/2020
	ption of CAR				
	As per §285 of VVS for PoAs (version 02.0) /B01-1/:				
them, o PoA-D methoo	"If the applied methodologies and/or standardized baselines have been updated to a later valid version of them, or changed to other methodologies or standardized baselines, the DOE shall confirm that the revised PoA-DD meets all requirements of the updated/changed methodologies, including the standards, methodological tools and guidelines applied in accordance with the updated/changed methodologies, and/or the updated/changed standardized baselines."				
				ot complied with the abov on team are as below:	e requirements. The specific
1.	CME has not i the revised Po		e version of the	methodology AMS-I.F. a	nd AMS-I.D on front page of
2.	2. In section I.2 of the PoA DD, the requirement of version 01.0 of AMS.I.F, which is removed in the latest version is still exists				
3.	 In section B and I.3 of the PoA DD, a reference of obsolete standard related to PoA has been provided. 				
 Obsolete version of General Guidelines to SSC CDM methodologies has been referred and used in section I.7.3 of the PoA DD. 					
5.	 Under section K of the PoA DD, eligibility criteria 11 and 12 refers and applies an obsolete CDM document. Furthermore, eligibility criteria 13 refers to the obsolete version of the applied methodology. 				
Editorial finding: The term "generic" through-out the PoA DD has spelling mistake.					
CME's	CME's response Date: 07/05/2020				
Please refer to the revised PoA-DD version 9.1. The CME has updated the PoA-DD accordingly					
Documentation provided by CME					
-	revised PoA-DD version 9.1				
DOE assessment Date: 07/05/2020					
1. CME has provided the revised Track Change PoA-DD and version of methodology AMS-I.F. and AMS-I.D has been provided					
2. Sect	2. Section I.2 has been revised and the requirement of version 01.0 of AMS.I.F, has been removed				

3. PoA Standard version has been updated in section B and I.3 in the revised PoA DD.

4. General Guidelines to SSC CDM methodologies version has been updated

5. CDM Requirements has been updated in eligibility criteria 11 and 12 under section K of the PoA DD, and applied methodology has been also updated in eligibility criteria 13.

The CAR is closed.

Table 3.FARs from this validation

FAR ID	XX	Section no.		Date:DD/MM/YYYY	
Description	Description of FAR				
-	-				
CME's respo	CME's response Date:DD/MM/YYYY				
-					
Documentation provided by CME					
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DOE assess	DOE assessment Date:DD/MM/YYYY			Date:DD/MM/YYYY	
-	-				

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Document information

Version	Date	Description
02.0	31 May 2019	Revision to:
		 Ensure consistency with version 02.0 of the "CDM validation and verification standard for programmes of activities" (CDM-EB93-A08-STAN) and version 02.0 of the "CDM project cycle procedure for programmes of activities" (CDM- EB93-A09-PROC);
		Make editorial improvements.
01.0	29 December 2017	Initial publication.
Documer Business	Class: Regulatory at Type: Form Function: Renewal of crea s: crediting period, program	diting period nme of activities, validation report