




Validation report form for CDM project activities

(Version 02.0)

Complete this form in accordance with the "Attachment: Instructions for filling out the validation report form for CDM project activities" at the end of this form.

VALIDATION REPORT

Title of the project activity	La Ferme – Bambous 15 MW solar power farm
Version number of the validation report	4
Completion date of the validation report	21/10/2016
Version number of PDD to which this report applies	1.2
Date when PDD was uploaded for global stakeholder consultation	02/07/2015
Project participant(s)	SARAKO PVP Co. Ltd
Host Party	Mauritius
Estimated annual average GHG emission reductions or net removals in the crediting period (tCO₂e)	21,878
Sectoral scope(s) and selected methodology(ies)	Sectoral Scope: 1 Methodology: ACM0002 version 16 (Grid-connected electricity generation from renewable sources)
Name of DOE	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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Purpose and general description

The Project Participant SARA KO PVP Co. Ltd has commissioned the DOE, Carbon Check (India) Private Ltd.^{/01/} to perform an independent validation of the CDM Project Activity “La Ferme – Bambous 15 MW solar power farm” in Mauritius (hereafter referred to as “project activity”). This report summarises the findings of the validation of the project, performed on the basis of UNFCCC criteria for the CDM, as well as criteria given to provide for consistent project operations, monitoring and reporting. The term “UNFCCC criteria” refers to Article 12 of the Kyoto Protocol, the CDM modalities and procedures or the simplified modalities and procedures for small-scale CDM project activities (as applicable) and the subsequent decisions by the CDM Executive Board. This report contains the findings and resolutions from the validation and a validation opinion.

The project activity ‘La Ferme – Bambous solar photovoltaic power plant’ is a 15.2 MW solar photovoltaic power plant which involves generation of grid-connected renewable energy. The project results in emission reductions due to displacement of electricity by a renewable energy source (solar photovoltaic) that would otherwise have been provided to the grid by more GHG intensive means. The project is connected to the national grid of Mauritius, Central Electricity Board (CEB). The project involves installation of 60800 solar PV panels of 250 Wp each¹. This results in a total of 15.2 MWp power. The project results in reductions of CO₂ emissions that are real, measurable and give long-term benefits to the mitigation of climate change. It is demonstrated that the project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project in accordance with the UNFCCC CDM requirements for additionality.

The purpose of a validation is to have a thorough and independent assessment of the proposed project activity against the applicable CDM requirements, in particular, the project's baseline, monitoring plan and the project's compliance with relevant UNFCCC and host Party criteria. These are validated in order to confirm that the project design, as documented, is sound and reasonable and meets the identified criteria. Validation is a requirement for all CDM projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of certified emission reductions (CERs).

Location

The project activity “La Ferme – Bambous 15 MW solar power farm” is located at Eau Bonne, Bambous, Mauritius. The geographical coordinates for the location of the project activity are:

Latitude: - 20.3708

Longitude: 57.3948

Scope of the validation

The validation scope is defined as an independent and objective review of the project design document (PDD)^{/11/}. The PDD^{/11/} is reviewed against the relevant criteria (see above) and decisions by the CDM Executive Board, including the approved baseline and monitoring methodology^{/B03/}. The validation team has, based on the recommendations in the Validation and Verification Standard^{/B02a/} employed (latest version) a rule-based approach, focusing on the identification of significant risks for project implementation and the generation of CERs.

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

While carrying out the validation, CCIPL determines if the project activity complies with the requirements of Para 37 of the CDM M&P, the applicability conditions of the selected methodology^{/B03/}, guidance issued by the Board and also assess the claims and assumptions made in the PDD^{/11/} without limitation on the information provided by the project participants.

Validation Process

The validation consists of the following four phases:

¹ Based on the interview with the project participant, it is confirmed that during local stakeholder consultation of the project activity, 62000 solar PV panels of 245 Wp each were planned. For the same reason the number of panels stated in section E.2 of the PDD is 62,000. However, at the time of delivery and final installation due to availability of panels from the supplier 60800 solar PV panels of 250 Wp each were installed. The total capacity of the power plant remains unchanged at 15.2 MW.

- I. A desk review of the project design documents
 - A review of data and information;
 - Cross checks between information provided in PDD^{11/} and information from sources with all necessary means without limitations to the information provided by the project proponent;
- II. On-site visit and follow-up interviews with project stakeholders
 - Interviews with relevant stakeholders in host country with personnel's having knowledge with the project development via telephone, email or direct on-site visits;
 - Cross checking between information provided by interviewed personnel with all necessary means without limitations to the information provided by the project proponent;
- III. Reference to available information's relating to projects or technologies similar projects under validation and review based on the approved methodology^{B03/} being applied of the appropriateness of formulae and accuracy of calculations.
- IV. The resolution of outstanding issues and the issuance of the final validation report and opinion.

The report is based on the assessment of the PDD^{11/} undertaken through stakeholder consultations, application of standard auditing techniques including but not limited to document reviews, site visit, and stakeholder interviews, review of the applicable/applied methodology^{B03/} and its underlying formulae and calculations.

This report contains the findings and resolutions from the validation and a validation opinion on the proposed PDA thus confirming the project design as document is sound and reasonable and meets the stated requirements and identified criteria.

Conclusion

Carbon Check (India) Private Ltd. concludes the validation with a positive opinion that the CDM Project Activity "La Ferme – Bambous 15 MW solar power farm" in Mauritius, as described in the PDD (version 1.2, dated 13/10/2016)^{101-6/}, meets all applicable CDM requirements, including those specified in the Project Standard, relevant methodologies, tools and guidelines and article 12 of the Kyoto Protocol, paragraph 37 of the CDM modalities and procedures and the subsequent decisions by the COP/MOP and CDM Executive Board.

The selected baseline and monitoring methodology (ACM0002, Version 16) is applicable to the project and correctly applied. Carbon Check (India) Private Ltd. therefore recommends the project to the CDM Executive Board for registration.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader/ Technical Expert/ Validator	IR	Dimri	Anubhav	CC IPL	X	X	X	X
2.	Local Expert	IR	Simcock	Adam	CC IPL		X	X	

B.2. Technical reviewer and approver of the validation report

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

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

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List of all documents reviewed or referenced during the validation is provided in Appendix-3.

C.2. On-site inspection

Duration of on-site inspection: 15/10/2015 to 16/10/2015				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening Meeting	Ebene, Mauritius	15/10/2015	Anubhav Dimri, Adam Simcock
2.	Discussion on the following aspects of the project: <ul style="list-style-type: none"> Project design and proposed technology to be used Baseline Scenarios and alternatives Emission Reductions Environmental Management Plan/ EIA Implementation schedule with milestones Management structure with Roles and Responsibilities Monitoring Plan and process to be adopted 	Ebene, Mauritius	15/10/2015 – 16/10/2015	Anubhav Dimri, Adam Simcock
3.	Following on-site inspections were conducted: <ul style="list-style-type: none"> Physical details of the site were checked Implementation and operation status (if any, including any civil works or equipment purchased) was reviewed 	Eau Bonne, Bambous, Mauritius	16/10/2015	Anubhav Dimri, Adam Simcock
4.	Local stakeholder meeting (which included representatives from local municipality)	Eau Bonne, Bambous, Mauritius	16/10/2015	Anubhav Dimri, Adam Simcock
5.	Discussion on PDD, ER spreadsheet and supporting documents	Ebene, Mauritius	16/10/2015	Anubhav Dimri, Adam Simcock

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Zuffour	Oliver	Sarako PVP Co. Ltd	15/10/2015 – 16/10/2015	<ul style="list-style-type: none"> Project Design Organisation background Project Implementation plan 	Anubhav Dimri, Adam Simcock

					<ul style="list-style-type: none"> • Project start date and Project Location • Project background information, CDM consideration • Baseline Scenario • Baseline Identification and Additionality • Monitoring and reporting documentation • Qualification and Training • Plant Operations • Quality Assurance – Management and operating system • Social and Environmental Impacts • Local Stakeholders meeting process • Compliance with relevant laws • Roles and responsibility • Observations of established practices 	
2.	Dunod	Alexandre	ecosur afrique	15/10/2015 – 16/10/2015	<ul style="list-style-type: none"> • Project Design • Project Implementation plan • Baseline Scenario • Baseline Identification and Additionality • Monitoring and reporting documentation • Emission reduction calculations • Ex-ante ER calculations • Monitoring Parameters 	Anubhav Dimri, Adam Simcock
3.	Bundhoo	Rajeev	Sarako PVP Co. Ltd	16/10/2015	<ul style="list-style-type: none"> • Project Design • Project Implementation 	Anubhav Dimri, Adam Simcock

					plan • Project start date and Project Location	
4.	Purmarssur	Yash	Sarako PVP Co. Ltd	16/10/2015	<ul style="list-style-type: none"> • Monitoring and reporting documentation • Qualification and Training • Plant Operations 	Anubhav Dimri, Adam Simcock
5.	Schmitt	Martin	Servicezentrum Tauber Solar	16/10/2015	<ul style="list-style-type: none"> • Technical Specification • Maintenance Plan • Monitoring and recording procedure • Project Design • Monitoring and operating system 	Anubhav Dimri, Adam Simcock
6.	Melisse	Josian	Vice Chairman, Black District Council (Local Stakeholder)	16/10/2015	<ul style="list-style-type: none"> • Social and Environmental Impacts • Local Stakeholders meeting process • Compliance with relevant laws 	Anubhav Dimri, Adam Simcock
7.		Martin	Local Stakeholder	16/10/2015	<ul style="list-style-type: none"> • Social and Environmental Impacts • Local Stakeholders meeting process 	Anubhav Dimri, Adam Simcock
8.	Bugwan	Tina	Central Electricity Board, Mauritius	16/10/2015	<ul style="list-style-type: none"> • Electricity meter calibration and specifications • Transmission line for electricity • Emission factor calculation data • Energy generation data • Invoice payment procedure for electricity generated 	Anubhav Dimri, Adam Simcock
9.	Kokil	Pramod	Central Electricity Board, Mauritius	16/10/2015	<ul style="list-style-type: none"> • Electricity meter calibration and specifications • Transmission line for electricity 	Anubhav Dimri, Adam Simcock

					<ul style="list-style-type: none"> • Emission factor calculation data • Energy generation data • Invoice payment procedure for electricity generated 	
10.	Sookhraz	Sanjay	Central Electricity Board, Mauritius	16/10/2015	<ul style="list-style-type: none"> • Electricity meter calibration and specifications • Transmission line for electricity • Emission factor calculation data • Energy generation data • Invoice payment procedure for electricity generated 	Anubhav Dimri, Adam Simcock
11.	Thannoo	Shiam Krisht	Central Electricity Board, Mauritius	16/10/2015	<ul style="list-style-type: none"> • Electricity meter calibration and specifications • Transmission line for electricity • Emission factor calculation data • Energy generation data • Invoice payment procedure for electricity generated 	Anubhav Dimri, Adam Simcock

C.4. Sampling approach

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Sampling is not applicable to the project activity.

C.5. Clarification requests, corrective action requests and forward action requests raised

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Global stakeholder consultation	01	00	00
Approval	00	01	00
Authorization	00	00	00
Contribution to sustainable development	00	00	00
Modalities of communication	00	01	00
Project design document	00	01	00
Description of project activity	01	01	00
Application of selected baseline and monitoring methodology and selected standardized baseline			
- Applicability of methodology and standardized baseline	01	02	00
- Deviation from methodology	00	00	00

- Clarification on applicability of methodology, tool and/or standardized baseline	00	00	00
- Project boundary	00	01	00
- Establishment and description of baseline scenario	00	00	00
- Demonstration of additionality	01	00	01
- Emission reductions	03	01	00
- Monitoring plan	00	02	00
Duration and crediting period	00	01	00
Environmental impacts	00	00	00
Local stakeholder consultation	00	01	00
Others (please specify)			
Total	07	10	01

SECTION D. Validation findings

D.1. Global stakeholder consultation

Means of validation	Document Review, Interview
Findings	CL 01 had been raised in this regard and has been resolved.
Conclusion	The global stakeholder comments submitted during the global stakeholder consultation process have been checked by the validation team. One of the comments submitted by lasith is not related to the project activity and in accordance with para 35 and 36 of the VVS version 09 considered not relevant to the project under consideration. The second comment submitted by dicken is also not relevant to the project activity. CL 01 had been raised with regards to the comments and the PP has clarified that no investment analysis is required for the demonstration of additionality and thus the comments related to debt are not relevant to the project activity. A question has also been raised with regards to the equipment and the PP has clarified that only new equipment is being used in the project activity, this was also confirmed during the on-site visit.

D.2. Approval

Means of validation	Document Review, Interview																								
Findings	CAR 01 had been raised in this regard and has been resolved.																								
Conclusion	<p>The below table summarizes the project participants and parties involved. The DNA of the host party indicated as being involved in the proposed CDM project activity in the PDD has provided a written letter of approval. The LoA has been signed by Mrs. Sin Lan NG Yun Wing, Director of Environment. Mrs. Sin Lan NG Yun Wing is the contact person/focal point as per the Contact details of the DNA provided on CDM interface. Carbon Check validation team has validated the authenticity of the letters of approval. The LoA^{/13/} is therefore regarded as valid and meeting the requirements.</p> <table border="1"> <tr> <td>Project participants</td><td>La Ferme – Bambous 15 MW solar power farm</td></tr> <tr> <td>Parties involved</td><td>Mauritius</td></tr> <tr> <td colspan="2">APPROVAL</td></tr> <tr> <td>LoA received</td><td>Yes</td></tr> <tr> <td>LoA refers to the precise proposed project activity title in the PDD</td><td>Yes – “La Ferme – Bambous 15 MW solar power farm”</td></tr> <tr> <td>Date of LoA</td><td>2016-08-01</td></tr> <tr> <td>LoA reference number</td><td>Ref. # - ENV/CLEAN/DV/MECH</td></tr> <tr> <td>LoA received from</td><td>PP</td></tr> <tr> <td>Validation of authenticity</td><td>The authenticity of the LoA^{/01/} has been validated through comparison with the Letter of Approval for other projects (UNPA Ref. no. 5212 and 10111) from Mauritius.</td></tr> <tr> <td>Validity of LoA</td><td>Valid</td></tr> <tr> <td colspan="2">PARTICIPATION</td></tr> <tr> <td>Party is party to Kyoto Protocol</td><td>Yes</td></tr> </table>	Project participants	La Ferme – Bambous 15 MW solar power farm	Parties involved	Mauritius	APPROVAL		LoA received	Yes	LoA refers to the precise proposed project activity title in the PDD	Yes – “La Ferme – Bambous 15 MW solar power farm”	Date of LoA	2016-08-01	LoA reference number	Ref. # - ENV/CLEAN/DV/MECH	LoA received from	PP	Validation of authenticity	The authenticity of the LoA ^{/01/} has been validated through comparison with the Letter of Approval for other projects (UNPA Ref. no. 5212 and 10111) from Mauritius.	Validity of LoA	Valid	PARTICIPATION		Party is party to Kyoto Protocol	Yes
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PARTICIPATION																									
Party is party to Kyoto Protocol	Yes																								

	Voluntary participation	Yes
	Diversion of official development aid towards host country	No
	Project contribution to Sustainable Development	Yes
The validation team confirms that the information related to the letter of approval as mentioned in the above table is authentic. The validation team has confirmed the same through comparison with the Letter of Approval for other projects (UNPA Ref. no. 5212 and 10111) from Mauritius. The project participant listed in the tabular form of the PDD has obtained the letter of approval from their respective DNA. The validation team confirms the letters of approval are unconditional with respect to VVS, version 09.0 paragraph 45.		

D.3. Authorization

Means of validation	Document Review, Interview
Findings	CAR 01 had been raised in this regard and has been resolved.
Conclusion	The project participant of the project activity is listed in the section A.4 of the PDD and the information provided is consistent with the information provided in the section that contains the contact information for project participants, i.e. Appendix 1 of the PDD. No project participants other than the authorized project participants are listed in the PDD section A.4 and Appendix 1. Validation team confirms that the approval of participation has been issued from the relevant DNA of the host party, Mauritius (Ministry of Environment Sustainable Development, and Disaster and Beach Management, Department of Environment, Mauritius). In accordance with the para 51 and 52 of the VVS version 09, the project meets the requirement of the VVS.

D.4. Contribution to sustainable development

Means of validation	Document Review, Interview
Findings	CAR 01 had been raised in this regard and has been resolved.
Conclusion	The host party's DNA has confirmed the contribution of the project to the sustainable development in Mauritius according to the Letter of Approval for the Project ^{/13/} , which was checked by the validation team to be valid. The contribution of the project to the sustainable development of the host country Mauritius has been provided in section A.1 of the PDD. The description in the LoA and PDD meets the requirements of para 58 of the VVS version 09.

D.5. Modalities of communication

Means of validation	Document Review, Interview
Findings	CAR 02 had been raised in this regard and has been resolved.
Conclusion	In accordance with the para 86 of the project standard, version 09 modalities of communication for the project activity has been provided to the validation team. The same person who is listed in Appendix 1 of the PDD has signed the modalities of communication form for the project activity. In accordance with the para 61 of the VVS (version 09.0) ^{/B01-1/} has checked the corporate identity of the project participant.

D.6. Project design document

Means of validation	Document Review
Findings	CAR 03 had been raised in this regard and has been resolved.
Conclusion	The PDD has been filled using the latest version of the form "CDM-PDD-FORM" version 08. The PDD meets all the requirements of the PDD filling instructions as provided in the attachment to the form. CAR 03 had been raised in this regard and has been resolved. In accordance with the para 89 of the project standard ^{/B01-2/} and para 69 of the VVS ^{/B01-1/} , version 09 PDD meets all the requirements of the form filling instructions.

D.7. Description of project activity

Means of validation	Document Review																				
Findings	CL 02 and CAR 04 had been raised in this regard and have been resolved.																				
Conclusion	<p>The technical details of the project as presented in the section A.3 of the PDD have been checked through the review of the technical specifications of the solar module installed, ABB report on the delivery of the inverters and power purchase agreement details on the overall installation and grid connectivity. Further, the details of the project were checked during the site visit by the validation team and confirmed through interviews with the representatives of Tauber Solar/I-5/ and the PP, SARAKO/I-1/. These details were also cross-checked through interviews with the representatives of the CEB, Mauritius/I-11/. The information as provided in section A.3 of the project is accurate and complete. Following information related to the project design has been checked by the validation team:</p> <p>Total installed capacity: 15.2 MW</p> <p>Design specifications of the solar modules as confirmed through manufacturer specifications are:</p> <table border="1"> <thead> <tr> <th colspan="2">Module Characteristics</th></tr> </thead> <tbody> <tr> <td>Manufacturer</td><td>Tianwei New Energy Holdings Co., Ltd. (TWNE)</td></tr> <tr> <td>Model</td><td>TW250P660</td></tr> <tr> <td>Maximum Power (W_p)</td><td>250</td></tr> <tr> <td>Encapsulated Cell Efficiency (%)</td><td>17.3</td></tr> <tr> <td>Module Efficiency (%)</td><td>15.4</td></tr> <tr> <td>Power Tolerance (W)</td><td>0~5</td></tr> <tr> <td>Maximum Series Fuse Rating (A)</td><td>15</td></tr> <tr> <td>Maximum System Voltage (TUV)</td><td>DC 1000 V</td></tr> <tr> <td>Normal Operating Cell Temperature (°C)</td><td>45 ± 3</td></tr> </tbody> </table> <p>The description of the project activity as provided in the PDD has been validated by the DOE by conducting an on-site inspection in accordance with the § 71 and § 72 of VVS (version 09.0)^{/B01-1/}. It was determined through the review of the PDD and confirmed during the onsite visit that the project activity is a greenfield project activity and the description of the project activity as provided in the PDD is accurate, complete, and provides an understanding of the proposed CDM project activity.</p>	Module Characteristics		Manufacturer	Tianwei New Energy Holdings Co., Ltd. (TWNE)	Model	TW250P660	Maximum Power (W_p)	250	Encapsulated Cell Efficiency (%)	17.3	Module Efficiency (%)	15.4	Power Tolerance (W)	0~5	Maximum Series Fuse Rating (A)	15	Maximum System Voltage (TUV)	DC 1000 V	Normal Operating Cell Temperature (°C)	45 ± 3
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Maximum System Voltage (TUV)	DC 1000 V																				
Normal Operating Cell Temperature (°C)	45 ± 3																				

D.8. Application of selected baseline and monitoring methodology and selected standardized baseline**D.8.1. Applicability of methodology and standardized baseline**

Means of validation	Document Review, Interview
Findings	CL 03, CAR 04 and CAR 08 had been raised in this regard and have been resolved.
Conclusion	<p>The applied methodology version is a valid version of the methodology at the time of the validation. The request for registration could be submitted till 13/01/2017. The project activity meets all the applicability conditions as provided in the methodology, ACM0002 version 16. A complete assessment of each of the methodology applicability conditions has been provided in the Appendix 5 of the validation report. The description in section B.2 of the PDD has been provided in accordance with the para 93 of the Project Standard version 09^{/B01-2/} and para 81 of the VVS, version 09^{/B01-1/}.</p> <p>The standardized baseline ASB0019 version 01 is a valid version of the standardized baseline at the time of the validation. The project activity meets the applicability conditions as provided in the standardized baseline ASM0019, Grid emission factor of Mauritius version 01. A complete assessment of each of the methodology applicability conditions has been provided in the Appendix 5 of the validation report. The description in section B.2 of the PDD has been provided in</p>

	accordance with the para 22 and 23 of the Project Standard version 09 ^{/B01-2/} and para 85 and para 86 of the VVS, version 09 ^{/B01-1/} .
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D.8.2. Deviation from methodology

Means of validation	Document Review, Interview
Findings	NA
Conclusion	No deviation from the selected methodology has been applied for the proposed CDM project activity. This meets the requirements of the para 87 of the VVS, version 09.

D.8.3. Clarification on applicability of methodology, tool and/or standardized baseline

Means of validation	Document Review, Interview
Findings	NA
Conclusion	No clarification from the selected methodology has been sought for the proposed CDM project activity. This meets the requirements of the para 87 of the VVS, version 09.

D.8.4. Project boundary

Means of validation	Document Review, Interview
Findings	CAR 05 had been raised in this regard.
Conclusion	The project boundary of the project activity has been identified in accordance with the § 21 and 22 of the methodology ACM0002 (version 16.0). All the selected gases and sources as provided in section B.3 of the PDD are appropriate to the type of project activity in accordance with the Table 2 of the methodology ACM0002 (version 16.0). The project boundary as identified in section B.3 of the PDD was also checked and compared with the actual project activity during the site visit and confirmed to be correct. The identified boundary and the selected sources and gases are justified for the CDM project activity and have been confirmed through a review of the site plan ^{/06-1/ /06-4/} and by conducting the site visit to check the equipment used. The project boundary identified meets the requirements of § 40 of the Project Standard (version 09.0) ^{/B01-2/} and § 91 of the VVS, version 09 ^{/B01-1/} .

D.8.5. Establishment and description of baseline scenario

Means of validation	Document Review, Interview
Findings	NA
Conclusion	According to para 23 of the methodology, ACM0002 version 16/B07/: If the project activity is the installation of a Greenfield power plant, the baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system". As the project would be a grid connected renewable power project, the baseline scenario is the electricity delivered to the grid by the project activity. The emission factor for the CEB (Central Electricity Board, Mauritius) transmission system would be used for the project activity. Validation team confirms that the baseline scenario opted by the project activity is in accordance with the requirements of the applied methodology, ACM0002 version 16, para 93 of the Project Standard, version 09 and para 97 and 98 of the VVS version 09 and is justified.

D.8.6. Demonstration of additionality

Means of validation	Document Review, Interview
Findings	CL 04 had been raised in this regard and has been resolved. FAR 01 has been raised in this regard and shall be checked at the time of first verification.
Conclusion	In accordance with section 5.3.1 of the methodology ACM0002 version 16/B07/, the additionality of the project has been demonstrated based on the Simplified procedure to demonstrate additionality. The project activity is deemed automatically additional in accordance with the section 5.3.1 of the methodology ACM0002 version 16 ^{/B07/} and this has been demonstrated in the section B.5 of the PDD ^{/01-6/} . The assessment of the additionality has been provided in Appendix 6 of the

	<p>Validation Report. The project activity meets the requirements of § 109-111 of the VVS version (09.0). The start date of the project activity is later than 2 August 2008 and the start date of the project activity is 05/07/2013. The start date of the project activity is the date EPC (Engineering, procurement and construction) contract^{/18/} was signed for the project activity. The start date of the project activity is validated through the review of the EPC contract provided by the project proponent, Sarako^{/18/}. The start date of the project activity is the earliest date of implementation or construction or real action of the CDM project activity. In accordance with the para 67 of the EB 41 meeting report as the date of signing of EPC contract is considered as the date on which the project participant has committed to expenditures related to the implementation or related to the construction of the project activity. The start date used is also in accordance with the Glossary of CDM Terms^{/B06/}. Prior Consideration of the CDM was notified on 28/11/2013^{/B05-1/} to the UNFCCC and to the DNA of Mauritius on 15/11/2013. The project activity meets the requirements of § 114-120 of the VVS version (09.0). Validation team confirms that the project activity meets the requirements of the VVS (version 09.0) and the methodology ACM0002 (version 16) to demonstrate additionality.</p>
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D.8.7. Emission reductions

Means of validation	Document Review, Interview
Findings	CAR 09, CL 05, CL 06 and CL 07 had been raised in this regard and have been resolved.
Conclusion	The steps taken and the equations and parameters applied in the PDD/01/ to calculate project emissions, baseline emissions, leakage and emission reductions comply with the requirements of the selected methodology including applicable tool(s). The assessment of the emission reductions and the emission factor calculation has been provided in Appendix 7 of the Validation Report.

D.8.8. Monitoring plan

Means of validation	Document Review, Interview
Findings	CAR 06 and CAR 07 had been raised in this regard and have been resolved.
Conclusion	<p>The project uses the methodology ACM0002, version 16/B07/. As per section 6 of the methodology parameter $EG_{\text{facility},y}$ is to be monitored. All the parameters as listed in section B.7.1 of the PDD have to be monitored. In section B.7.3 of the PDD, the responsibilities under monitoring organisation have been provided correctly. The monitoring organization structure for the project has been provided.</p> <p>The procedure for internal auditing and procedures for handling non-conformances with the validated monitoring plan have been provided in section B.7.3 of the PDD. The details as provided have been compared with the Management System workflows and O & M plan for the project activity/07/. Validation team confirms that the monitoring plan complies with the requirements of the methodology, ACM0002, version 16/B07/, the monitoring arrangements described in the monitoring plan are feasible within the project design and that the PP is able to implement the described monitoring plan.</p>

D.9. Duration and crediting period

Means of validation	Document Review, Interview
Findings	CAR 10 had been raised in this regard and has been resolved.
Conclusion	<p>The implementation plan for the project activity has been provided in section C.1.1 of the PDD^{/01-6/}. The start date of the project activity is 05/07/2013, the start date is based on the signing of the EPC contract for the project activity and followed up by start of the civil construction for the project activity and then by Drilling and mounting of the solar panels in November-December 2013. The start date of the project activity is the first real action related to the project activity. Start date of the project activity, expected operational lifetime, type and duration of the crediting period, start date of the crediting period have been provided in accordance with the para 154 of the VVS version 09.</p>

D.10. Environmental impacts

Means of validation	Document Review, Interview
Findings	NA

Conclusion	The environmental impact assessment has been conducted for the project activity. The environmental impact assessment has been provided to the validation team. PP has provided the highlights of the environmental impact assessment report/04/ in section D of the PDD/01/. The issues have been identified in the EIA report/04/ and mitigation measures have been identified in the environmental monitoring plan/04-4/. The mitigation measures identified in the environmental monitoring plan /04-4/ shall be implemented by the PP for the project activity. The EIA license was provided on 19/08/2013 ^{/04-3/} . The copy of EIA license was checked by the validation team. Validation team confirms that the project activity meets the requirements of para 157 and 158 of the VVS, version 09 ^{/B01-1/} .
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D.11. Local stakeholder consultation

Means of validation	Document Review, Interview
Findings	CAR 03 had been raised in this regard and has been resolved.
Conclusion	The stakeholder consultation meeting was held on 31/05/2013 in the Bambous Village Council, Mauritius. The key comments made by the local stakeholders were all answered during the local stakeholder consultation meeting and have also been provided in the section E of the PDD/01/. The proof for local stakeholder consultation like Invitation letter from the district council, list of attendees, minutes of the local stakeholders meeting have been provided to the validation team as the evidence of Local Stakeholder Consultation/11/. The local stakeholders were also interviewed during the site visit. Validation team considers the local stakeholder consultation to be adequate for the project activity and that the comments received have been duly taken into account. Validation team confirms that the local stakeholder consultation conducted meets the requirements as provided in para 162-165 of the VVS, version 09 ^{/B01-1/} .

SECTION E. Internal quality control

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

SECTION F. Validation opinion

>>

The validation team assigned by the DOE (Carbon Check (India) Private Ltd.) here after referred as CCIPL, has been assigned by the Project Participant "SARAKO PVP Co. Ltd" to perform the validation of their project "La Ferme – Bambous 15 MW solar power farm". The validation was performed on the basis of UNFCCC criteria for the Clean Development Mechanism. The scope of the validation is defined as an independent and objective review of the project design document, the project's baseline establishment and monitoring plan and other relevant documents. The information in these documents is reviewed against CDM Validation and Verification Standard^{/B01-1/}, Kyoto Protocol requirements, CDM M & P and subsequent decisions and guidance by the COP/MOP and CDM Executive Board.

The report is based on the assessment of the project design document undertaken through stakeholder consultations, application of standard auditing techniques including but not limited to document reviews, site visit, and stakeholder interviews, review of the applicable/applied methodology^{/B02/} and its underlying formulae and calculations.

The Validation team confirms the contractual relationship^{/15/} signed on the 01/07/2015 between the DOE, Carbon Check (India) Private Ltd. And the Project Participant, (SARAKO PVP Co. Ltd). The team assigned to the validation meets the Carbon Check (India) Private Ltd.'s internal procedures including the UNFCCC requirements for the team composition and competence. The projects team has conducted a thorough contract review as per UNFCCC and Carbon Check procedures and requirements.

Validation methodology and process

The validation has been performed as described in the VVS version 09^{/B01-1/} and constitutes the following steps:

- Publication of the PDD^{/01-1/} on the UNFCCC website (02/07/2015 – 31/07/2015) for GSC.

- Document review of data and information (PDD^{/01-1/} and the relevant documents including the reference to information relating to projects or technologies similar to the proposed project activity and review based on the approved methodology^{/B02/} being applied and of the appropriateness of formulae and accuracy of calculations).
- Cross checks between information provided in the PDD^{/01-1/} and information from other sources.
- Follow up actions for cross checking data and on-site assessment (15/10/2015 – 16/10/2015).
- Reference to available information
- Issuance of Validation Report.

Validation criteria

The following CDM requirements have been considered:

- Article 12 of the Kyoto Protocol,
- Modalities and procedures for CDM (CDM M & P)
- Subsequent decisions by the COP/MOP and CDM Executive Board
- Host country criteria
- Criteria given to provide for consistent project operations, monitoring and reporting.

The host party is Mauritius and is a unilateral project. The party fulfils the participation requirements and have approved and authorized the project and the project participants. The DNA from Mauritius confirms that the project assists in achieving sustainable development.

The project correctly applies the baseline and monitoring methodology ACM0002, version 16, “Grid-connected electricity generation from renewable sources”^{/B02/}.

The project results in reductions of 218,780 tCO_{2e} emissions that are real, measurable and give long-term benefits to the mitigation of climate change. It is demonstrated that the project is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity.

The validation did not reveal any information that indicates that the project can be seen as a diversion of ODA funding towards.

The PDD^{/01-6/} contains monitoring plan for the monitoring of the emission reductions from the project. The monitoring arrangements described in the monitoring plan are feasible within the project design and it is CCIPL’s opinion that the project participants are able to implement the monitoring plan.

The project activity involves setting up of photovoltaic (PV) panels and generation of electricity to be supplied to the national grid of Mauritius, CEB. Electricity in Mauritius is mainly generated from fossil fuel based sources, coal and heavy fuel oil. The project activity will therefore substitute grid electricity by renewable energy, and thus reduce GHG emissions. The project activity will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and provide long-term benefits to the mitigation of climate change.

The total emission reductions from the project are estimated to be 218,780 t of CO_{2e} over a ten year crediting period, averaging 21,878 t of CO_{2e} annually. The emission reduction forecast has been checked and it is deemed likely that the stated amount shall be achieved given the underlying assumptions do not alter.

The validation protocol describes a total of 18 (Eighteen) findings which include:

- 10 (Ten) Corrective Action Requests (CARs);
- 07 (Seven) Clarification Requests (CLs);
- 01 (One) Forward Action Requests (FARs);

All findings have been closed satisfactorily.

The total emission reductions from the project are estimated to be 218,780 t of CO_{2e} over a ten-year crediting period during 01/10/2016 to 30/09/2026, averaging 21,878 t of CO_{2e} annually. The emission reduction forecast has been checked and it is deemed likely that the stated amount is achieved given the underlying assumptions do not change.

Carbon Check (India) Private Ltd. Concludes the validation with a positive opinion that the CDM Project Activity “La Ferme – Bambous 15 MW solar power farm” in Mauritius, as described in the PDD (version 1.2,


dated 13/10/2016)^{/01-6/}, meets all applicable CDM requirements, including those specified in the Project Standard/^{B01-2/}, relevant methodologies/^{B02/}, tools and guidelines and article 12 of the Kyoto Protocol, paragraph 37 of the CDM modalities and procedures and the subsequent decisions by the COP/MOP and CDM Executive Board.

The selected baseline and monitoring methodology ACM0002 (version 16.0)^{/B02/} is applicable to the project and has been correctly applied. The methodology version is valid and the requests for registration can be submitted upto 13/01/2017. Carbon Check (India) Private Ltd., therefore requests the registration of the project as a CDM project activity with the UNFCCC.

Appendix 1. Abbreviations

Abbreviations	Full texts
BAU	Business As Usual
CA	Corrective Action / Clarification Action
CDM	Clean Development Mechanism
CEB	Central Electricity Board, Mauritius
CER	Certified Emission Reduction
CAR	Corrective Action Request
CC IPL	Carbon Check (India) Private Ltd.
CER	Certified Emission Reduction
CL	Clarification Request
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
DR	Document review
DOE	Designated Operational Entities
DVR	Draft Validation Report
EB	CDM Executive Board
EF	Emission Factor
EI	External individual
EPC	Engineering Procurement Construction
FA	Final Approval
FAR	Forward Action Request
FVR	Final validation Report
GHG	Greenhouse gas(es)
I	Interview
IPCC	Intergovernmental Panel on ClimateChange
IR	Internal resource
MW	Mega Watt
MWh	Mega watt hours
MR	Monitoring Report
PDD	Project Design Document
PP	Project Participant
OSV	On Site Visit
QC/QA	Quality control /Quality assurance
RMP	Revised Monitoring Plan
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Ltd.

Anubhav Dimri

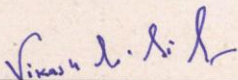
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:


Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input checked="" type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

In the following Technical Areas:


TA 1.1	<input checked="" type="checkbox"/>	TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 4.1	<input type="checkbox"/>	TA 8.1	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input type="checkbox"/>
TA 2.1	<input type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>		



Mr. Vikash Kumar Singh
Compliance Officer



Mr. Amit Anand
CEO



Date of Approval
24/12/2015

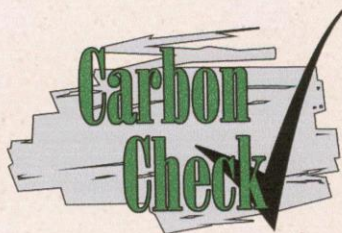
Valid Till
23/12/2016

Revision History of the Document

26/12/2014	Initial Adoption
20/01/2016	Revision to reflect updated office address

¹ India, South Africa

CARBON CHECK (INDIA) PRIVATE LIMITED
Registered in India: U74930DL2012PTC232495
Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005
Corporate off: G 49 & 50, 3rd Floor, Sector - 3, NOIDA (Uttar Pradesh) - 201301
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e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Vikash Kumar Singh

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input checked="" type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

In the following Technical Areas:

TA 1.1	<input type="checkbox"/>	TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input checked="" type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 4.1	<input checked="" type="checkbox"/>	TA 8.1	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input type="checkbox"/>
TA 2.1	<input type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>		

Mr. Amit Anand
CEO



Date of Approval
24/12/2015

Valid Till
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Revision History of the Document

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20/01/2016

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Revision to reflect updated office address

¹ India, South Africa

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Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	SARAKO PVP Co. Ltd	Project Description titled: 1. La Ferme – Bambous solar photovoltaic power plant Version 0.1 dated 26/06/2015 2. La Ferme – Bambous solar photovoltaic power plant Version 0.2 dated 21/01/2016 3. La Ferme – Bambous solar photovoltaic power plant Version 0.3 dated 23/02/2016 4. La Ferme – Bambous solar photovoltaic power plant Version 1 dated 08/06/2016 5. La Ferme – Bambous solar photovoltaic power plant Version 1.1 dated 01/08/2016 6. La Ferme – Bambous solar photovoltaic power plant Version 1.2 dated 13/10/2016	Version 0.1 dated 26/06/2015 Version 0.2 dated 21/01/2016 Version 0.3 dated 23/02/2016 Version 1 dated 08/06/2016 Version 1.1 dated 01/08/2016 Version 1.2 dated 13/10/2016	Project Participant
2	SARAKO PVP Co. Ltd	ER sheet and GEF sheet corresponding to: 1. /01-1/ 2. /01-2/ 3. /01-3/ 4. /01-4/ 5. /01-5/ 6. /01-6/	NA NA NA NA NA NA	Project Participant
3	Ministry of Housing and Lands, Mauritius Registrar of Companies, Mauritius	Legal Documents: 1. Ministry of Housing and Lands, Mauritius: Land lease agreement dated 02/09/2013 2. Certificate of Incorporation, 21/03/2012	Ref. SAPPL/ 90106/ G201/ 00001/ V2 Company No. 108677	Project Participant
4	Sarako PVP CO Ltd Ministry of Environment and Sustainable Development	EIA (Environmental Impact Assessment): 1. Non-technical summary (EIA) 2. EIA – Contents 3. EIA License 19/08/2013 4. Environmental Monitoring Plan February 2014	NA NA ENV/DOE/EIA/1587 NA	Project Participant
5	CEB, Mauritius	Power Purchase Agreement dated 21/05/2013	Version 02	Project Participant
6	Property Design and Management Consultants Ltd. ABB TIANWEI Tauber Solar	Technical Specifications: 1. Site Plan 2. ABB: Article on the supply 3. Tianwei: Solar Module Configuration 4. PV Farm line diagram	2013/SA/SP/001 20/03/2014 NA 15/11/2013	Project Participant
7	Sarako PVP CO Ltd	Management System 1. Organisation Chart 2. Training Certificates for personnel 3. Operation and Maintenance activities schedule 4. Operation and Maintenance activities workflow	NA CEB, Skytron, Tauber Solar for Yash Purmassur and Seeneevassen David Donny NA NA	Project Participant
8	CEB (Meter Laboratory) CEB	Monitoring System: 1. Testing, Installation and Commissioning of meters	17/02/2014	Project Participant

	CEB CEB Schneider Electric Schneider Electric	2. Manufacturer specifications for the installed meters 3. Meter calibration requirements 4. Installation certificate of the installed meters (CEB) 5. Calibration requirements of the PowerLogic meters (PP) 6. PowerLogic ION8600 User Manual		
9	Sarako Sarako (PV Guard) CEB Sarako Sarako	Electricity Generation Data 1. Electricity data including import and export 2. Daily Log sample 3. Invoices to/from the CEB 4. Plant Performance sample records 5. Weekly reports including downtimes	NA NA Feb 2014 – Aug 2015 NA NA	Project Participant
10	Sarako CEB CEB	Grid Emission factor: 1. Grid Emission factor calculation spreadsheet 2. Grid data collection 3. Email from CEB confirming the data dated 29/01/2015 4. Copy of Grid EF data collection for CEB 2010-2014.xlsx dated 29/01/2015 5. GEF 2014_SPVP.xlsx dated 26/02/2015	NA	Project Participant
11	Sarako	Local Stakeholder Consultation: 1. Invitation letter from District Council for local stakeholder consultation 2. Invitation List for Stakeholders 3. Minutes of stakeholder meeting	DCBR 2689/ 2013/ F50/ 89	Project Participant
12	Ministry of Finance and Economic Development, Mauritius	Statistics Mauritius (2014): Digest of Water and Energy Statistics – 2013	2014	Project Participant
13	Ministry of Environment, Sustainable Development, and Disaster and Beach Management, Mauritius	Letter of Approval from the host country DNA (Designated National Authority)	Dated 01/08/2016 Reference ENV/CLEAN/DV/ MECH	Project Participant
14	Sarako	Modalities of Communication 1. Modalities of Communication dated 28/10/2015 2. (http://www.sarako.mu/en/managing-directors.html) 3. Screenshot 4. Organisation chart	NA	Project Participant
15	Sarako and CCIPL	Contract signed between the DOE and the project participant, SARAPO PVP Co. Ltd	Dated 01/07/2015	Project Participant
16	CEB, Mauritius	Commissioning Certificate dated 18/02/2014	NUG/SPVP/UP/ 20140218	Project Participant
17	Sarako	Financial Model	NA	Project Participant
18	Sarako	Engineering, Procurement and Construction contract signed between PP (SARAPO PVP CO LTD) and TS SPAIN GMBH (Tauber Solar) signed on 05/07/2013	003 – Sales Agreement Mauritius Le Bambous 15 MW – TS Spain - Sarako	Project Participant
/B01/	UNFCCC	1. Validation and Verification Standard version 09.0	http://cdm.unfccc.int/	Others

		2. Project Standard version 09.0 3. Project Cycle Procedure version 09.0		
/B02/	UNFCCC	Applied baseline and monitoring methodology, ACM0002, version 16	http://cdm.unfccc.int/	Others
/B03/	UNFCCC	Instructions for filling the form for CDM project activity, version 01.0	http://cdm.unfccc.int/	Others
/B04/	UNFCCC	Tool to calculate the emission factor for an electricity system, version 05	http://cdm.unfccc.int/	Others
/B05/	Web sites	Websites: 1. http://cdm.unfccc.int/ 2. http://www.ipcc-nggip.iges.or.jp/ 3. Sarako Chronology 4. MID strategy and Objectives 5. EIA procedure in Mauritius 6. Technical Degradation rates	--	Others
/B06/	UNFCCC	Glossary of CDM Terms, Version 08, EB 82 Annex 12	http://cdm.unfccc.int/	Others
/B07/	UNFCCC	Guidelines on the Demonstration and Assessment of Prior Consideration of the CDM, EB 62 Annex 13	http://cdm.unfccc.int/	Others
/B08/	UNFCCC	Guidelines for the reporting and validation of plant load factors, EB 48 Annex 11	http://cdm.unfccc.int/	Others

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

Table 1. CL from this validation

CL ID	01	Section no.	D.1	Date: 07/12/2015
Description of CL				
During the global stakeholder consultation process for the project activity, two comments have been received. One of the comments by lasith is addressed to the DOE and the second comments made by dicken is for the project activity. PP shall provide a clarification on the comments raised by the global stakeholder.				
Project participant response				Date: 14/12/2015
<p>1. PP cannot clarify on the first comment as it concerns exclusively the DOE and PP has no information on the issues raised.</p> <p>2. The second comment addresses two issues:</p> <p>a) <i>Additionality: PP confirms that revenues from CDM have been considered prior to the start of the project in line with the CDM regulation, as submission of the respective form to the UNFCCC on 28 Nov 2013 reveals. Furthermore, has shown the additionality of the project activity in line with latest version of ACM0002 in section B.5 of the PDD. In contrast to the comment, the methodology does not require any investment analysis for demonstrating additionality.</i></p> <p>b) <i>Demonstration that the equipment is not part of another bundled project activity: PP is not sure about motivation of the comment is not clear. However, as stated in section A.3 of the PDD, all equipment is new. The project activity is not a part of any other CDM activity.</i></p>				
Documentation provided by project participant				
-				
DOE assessment				Date: 08/02/2016
The comments posted during the global stakeholder consultation process have been addressed by the PP. In response to the comment, PP has clarified that to demonstrate additionality, investment analysis is not required for the project and has obtained prior consideration of the project. Further, the equipment used is new and since the project type is a large scale activity debundling demonstration is not required for the project activity.				

CL ID	02	Section no.	D.7	Date: 07/12/2015
Description of CL				
The module efficiency of the solar PV modules as provided in section A.3 does not match exactly with the efficiency as provided in the supporting document (technical specifications) for the panel provided.				
Project participant response				Date: 14/12/2015
<i>The module efficiency of the solar PV modules provided has been modified in order to match exactly with the efficiency as provided in the supporting document (technical specifications) for the panel provided.</i>				
Documentation provided by project participant				
Revised PDD				
DOE assessment				Date: 08/02/2016
The module efficiency of the solar PV module has been modified and is consistent with the supporting document provided.				

CL ID	03	Section no.	D.8.1	Date: 07/12/2015
Description of CL				
In section B.1 of the PDD, tool "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period" has been referred. It is not clear if the tool has been used in the project activity.				
Project participant response				Date: 14/12/2015
<i>The reference is meant for use at time of renewal of the crediting period.</i>				
Documentation provided by project participant				
-				
DOE assessment				Date: 08/02/2016
It has been clarified that the tool mentioned in section B.1 shall be applicable at the time of renewal of the crediting period. The tool is applicable in accordance with para 14 (f) of the methodology ACM0002 version 16.				

CL ID	04	Section no.	D.8.6	Date: 07/12/2015
Description of CL				
In order to meet the requirements of section 31 of the methodology ACM0002, version 16, it is not clear if the PP would provide the information on actual capital cost of the project activity at the time of the first verification.				
Project participant response				Date: 14/12/2015
In order to meet the requirements of section 31 of the methodology ACM0002, version 16, section B.5 of the PDD has been amended in order to include that the project proponent will provide information on actual capital cost of the project activity at the time of first verification.				
Documentation provided by project participant				
Revised PDD				
DOE assessment				Date: 08/02/2016
In section B.5 of the PDD, PP has stated that in order to meet the requirements of the section 31 of the methodology ACM0002, version 16 the information on actual capital cost of the project activity would be provided at the time of the first verification.				

CL ID	05	Section no.	D.8.7	Date: 07/12/2015
Description of CL				
Generation data as provided in the ER sheet does not match with the supporting document spreadsheet provided for calculation. Also, the generation data in the supporting document sheet provided for Feb 2014 does not match with the invoice.				
Project participant response				Date: 14/12/2015
Ex-ante ER calculation sheet is different from ex-post ER calculation sheet because ex-ante document was based on Sarako's initial internal records of power generation, adjusted for auto-consumption and extrapolated to a yearly basis, while ex-post calculation are based on CEB-metered and invoiced net power export.				
Documentation provided by project participant				
-				
DOE assessment				Date: 08/02/2016

It has been clarified by the PP that the spreadsheet provided is ex-ante calculated and thus has difference from the actual generation data.

CL ID	06	Section no.	D.8.7	Date: 07/12/2015
Description of CL				
The source of data for all power plants as used in the GEF calculation spreadsheet is not available from the supporting document provided, for power plants other than Hydro and thermal. Date of commissioning and fuel type related data is also not available from the data source provided.				
Project participant response				Date: 14/12/2015
<p>The Grid Emission Factor (GEF) spreadsheet is supported by 2 evidence emails/attachments from CEB directly forwarded to the DOE by Sarako:</p> <ul style="list-style-type: none"> - Copy of Grid EF data collection for CEB 2010-2014.xlsx dated 29/01/2015 - GEF 2014_SPVP.xlsx dated 26/02/2015 <p>With regards to missing IPP dates of commissioning, these had been left blank by CEB because older than 2007 (as per column header "Commissioning date of the <u>10 last power units</u>"). Yet, these dates are easily verifiable through public literature research:</p> <ul style="list-style-type: none"> ▪ BEAU CHAMP : 1998 (http://www.africabib.org/rec.php?RID=Q00027691&DB=p) ▪ F.U.E.L : 1997 – 20 years PPA signature date (« Contrat de 20 ans signé en août 1997 » : http://www.lemauricien.com/article/commission-manraj%C2%A0%C2%A0les-contracts-ipp-disseques) ▪ MEDINE : 1979 - "Médine Sugar Estates was the first sugar factory to export electricity to CEB under contract, starting in 1979" (CEB Integrated Electricity Plan 2003-2012, p.40, http://ceb.intnet.mu/CorporateInfo/IEP2003.pdf) 				
Documentation provided by project participant				
<ul style="list-style-type: none"> - Copy of Grid EF data collection for CEB 2010-2014.xlsx dated 29/01/2015 - GEF 2014_SPVP.xlsx dated 26/02/2015 				
DOE assessment				Date: 08/02/2016
The required supporting documents for the ER sheet have been provided by the PP and conform with the data provided in the ER sheet. Furthermore, ASB0019: Grid emission factor of Mauritius – Version 01.0 has been used for the emission factor for the project activity.				

CL ID	07	Section no.	D.8.7	Date: 07/12/2015
Description of CL				
In section B.6.1 of the PDD it is stated that "no auxiliary fossil fuel consumption", however it was observed during the site visit that a backup generator has been used for the site office.				
Project participant response				Date: 14/12/2015
A footnote has been added as "A 10 kVA diesel genset (to backup power the servers and security lighting) will likely result in negligible emissions." However, it has also been added in this PDD section that "In particular, ACM0002 §37 stipulates that for all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected."				
Documentation provided by project participant				
Revised PDD				
DOE assessment				Date: 08/02/2016
A footnote has been provided in section B.6.1 of the PDD which is in accordance with the observation during the onsite visit. This is in accordance with para 37 of the methodology ACM0002, which states that emissions due to the use of fossil fuels for the backup generator can be neglected.				

Table 2. CAR from this validation

CAR ID	01	Section no.	D.2, D.3, D.4	Date: 07/12/2015
Description of CAR				
The letter of approval (LoA) for the project activity has not been provided in accordance with para 81, 82 and 83 of the Project Standard version 9.0 and para 51 and 52 of the VVS version 09.				
Project participant response				Date: 01/08/2016
LoA required supporting documents have been officially submitted to the DNA on January 20 th 2016, as per "LoA request letter SARAko.pdf"				
Documentation provided by project participant				

LoA	
DOE assessment	Date: 02/08/2016
The letter of approval for the project activity dated 01/08/2016 has been provided to the validation team. The LoA meets the requirements of para 81, 82 and 83 of the Project Standard version 9.0 and para 51 and 52 of the VVS version 09.	

CAR ID	02	Section no.	D.5	Date: 07/12/2015
Description of CAR				
The modalities of communication (MoC) for the project activity has not been provided in accordance with para 86 of the Project Standard version 9.0.				
Project participant response				Date: 14/12/2015
<i>Please see documentation provided.</i>				
Documentation provided by project participant				
<i>MoC Sarako Bambous.pdf</i>				
DOE assessment				Date: 08/02/2016
The document stated has not been provided to the validation team.				
Project participant response				Date: 24/02/2016
<i>The document has now been provided to the DOE</i>				
Documentation provided by project participant				
<i>MoC Sarako Bambous.pdf</i>				
DOE assessment				Date: 15/03/2016
The corporate identities of the signatory for the MoC have not been provided to the validation team.				
Project participant response				Date: 27/04/2016
Corporate identity of the MoC signatory can be cross-checked with (i) the organization chart provided during validation and (ii) the online webpage's directors section (http://www.sarako.mu/en/managing-directors.html).				
Documentation provided by project participant				
<i>Organisation Chart.pdf</i> <i>Screenshot from Sarako website.jpg</i>				
DOE assessment				Date: 31/05/2016
The corporate identity of the signatory for the MoC is confirmed through the review of the Sarako website screenshot and confirmed through the link.				

CAR ID	03	Section no.	D.6	Date: 07/12/2015
Description of CAR				
The PDD doesn't follow all the requirements from the PDD instructions for completing the template form and thus do not meet the requirements of para 89 of the Project Standard version 09 and para 70 of the VVS version 09:				
<ol style="list-style-type: none"> 1. In section A.1 of the PDD all the requirements have not been followed: <ol style="list-style-type: none"> a. Include a brief description of how the project activity contributes to sustainable development (not more than one page). b. Confirm that the proposed CDM project activity is not a CPA that has been excluded from a registered CDM PoA as a result of erroneous inclusion of CPAs. 2. Section A.2.4 of the PDD does not meet the requirements of the form filling guidelines: <ol style="list-style-type: none"> a. Provide details of the physical/geographical location of the project activity, including information allowing the unique identification of this project activity and a map. Do not exceed one page for the description of location. b. Also, the geographical coordinates are not provided in decimal format as a requirement for the UNFCCC interface. 3. Section A.3 of the PDD does not meet the following requirements of the form filling guidelines: <ol style="list-style-type: none"> a. A list and the arrangement of the main manufacturing/production technologies, systems and equipment involved. Include in the description information about the age and average lifetime of the equipment based on manufacturer's specifications and industry standards, and existing and forecast installed capacities, load factors and efficiencies. The monitoring equipments and their location in the systems are of particular importance; b. Include a description of how the technologies and measures and know-how to be used are transferred to the host Party. 				

4. Section A.3 of the PDD does not meet the following requirements of the form filling guidelines:
 - a. Explain **documentation** that has been used and provide the references to it or include the documentation in Appendix 3. Below
5. Section E.3 of the PDD does not meet the following requirements of the form filling guidelines:
 - a. Provide information demonstrating that all comments and complaints received, including comments and complaints forwarded by the DNA of the host Party, if any, have been considered.

Project participant response	Date: 14/12/2015
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1. a) A brief description has been added in the section.
- b) A respective footnote has been included in the section.
2. a) The section has been reduced to below one page.
- b) Geographical coordinates have been provided in decimal format.
3. a) Age and average lifetime have been made more explicit based on manufacturer's specifications.
- b) A description has been inserted.
4. Respective footnotes with links to the documentation have been inserted into the section.
5. Information has been provided in the corresponding section.

Documentation provided by project participant	
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Revised PDD	
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DOE assessment	Date: 08/02/2016
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1. a) A brief description of how the project activity contributes to the sustainable development of the host country has been provided in section A.1 of the PDD. Please clarify how the sustainable development contribution of the project activity meets the sustainable development criteria of DNA and other such [commitments](#) from Mauritius. CAR03.1.a is closed
- b) A confirmation has not been provided that the proposed CDM project activity is not a CPA that has been excluded from a registered CDM PoA as a result of erroneous inclusion of CPAs. CAR03.1.b remains open.
2. a) The project site has been provided limited to one page. CAR03.2.a is closed.
- b) The geographical coordinates of the project activity have been provided in section A.2.4 of the PDD in decimal format. CAR03.2.b is closed.
3. a) PP has provided age and expected average lifetime based on the manufacturer specifications and life expectancy. CAR03.3.a is closed.
- b) PP has provided a brief description of how the technology would be transferred for the project activity. Further, it is stated that "To date, no similar technology of this size is operated on the island" and "No similar solar PV farm is under construction in the country". Appropriate evidence needs to be provided to confirm the information provided in this regard. CAR03.3.b remains open.
4. No documentation has been provided to support power output technological degradation for the PV modules. CAR03.4 remains open.
5. PP has provided details on the comments provided in section E.3 of the PDD. CAR 03.5 is closed.

Project participant response	Date: 24/02/2016
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- 1b) It seems that there was a confusion of PDD version as the confirmation has already been included. Please see footnote 2 of the revised PDD.
- 3b) "To date, no similar technology of this size is operated on the island": Supportive evidence is provided with the submitted CEB data on the grid emission factor. "No similar solar PV farm is under construction in the country": sentence has been deleted.

Documentation provided by project participant	
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Revised PDD	
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DOE assessment	Date: 15/03/2016
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- 1b) A confirmation has been provided by the PP in section A.1 of the PDD that the proposed CDM project activity is not a CPA that has been excluded from a registered CDM PoA as a result of erroneous inclusion of CPAs. CAR03.1.b is closed.
- 3b) PP has clarified the statement and stated that no similar technologies are operating on the island of Mauritius. However, from the CEB data there is solar PV technology installed and connected to CEB grid. CAR03.3.b remains open.

Project participant response	Date: 27/04/2016
Statement has been revised as 'Only small/micro-scale solar PV panels for a total of 2.4 MW' instead of 'no similar technology'.	
Documentation provided by project participant	
DOE assessment	Date: 31/05/2016
The statement has been revised in the section A.3 of the PDD and the PDD meets the requirements of para 89 of the Project Standard version 09 and para 70 of the VVS version 09. Furthermore, ASB0019: Grid emission factor of Mauritius – Version 01.0 has been used for the emission factor for the project activity.	

CAR ID	04	Section no.	D.7	Date: 07/12/2015
Description of CAR				
The declaration for no ODA applicable for the project activity has not been provided to the validation team.				
Project participant response				Date: 20/01/2016
<i>Please see documentation submitted.</i>				
Documentation provided by project participant				
<i>ODA declaration.pdf</i>				
DOE assessment				Date: 08/02/2016
PP has provided a declaration confirming that no ODA is applicable for the project activity. Furthermore, a confirmation has been provided in section A.5 and Appendix 2 of the PDD.				

CAR ID	05	Section no.	D.8.4	Date: 07/12/2015
Description of CAR				
In section B.3 of the PDD, the justification for the GHGs involved has not been provided specific to the project. CSP related emissions are also stated.				
Project participant response				Date: 14/12/2015
<i>PP has tailored the justification for the GHGs involved more to the specific project.</i>				
Documentation provided by project participant				
<i>Revised PDD</i>				
DOE assessment				Date: 08/02/2016
PP has changed the justification for the GHGs involved for the project activity. However, for baseline emissions in the row for gases CH ₄ , N ₂ O and Other the justification states minor emission source. Further, justification needs to be provided how the gases are minor emission source for the project activity.				
Project participant response				Date: 24/02/2016
This is pre-defined as per Table 2, ACM0002 version 16.				
Documentation provided by project participant				
NA				
DOE assessment				Date: 15/03/2016
PP has clarified that minor emissions are provided as present in the pre-defined Table 2 in ACM0002 version 16 and are not applicable to the project activity.				

CAR ID	06	Section no.	D.8.8	Date: 07/12/2015
Description of CAR				
In section B.7.1 of the PDD, the details as provided in Source of data and description of measurement methods do not match with the monitoring equipment stated and the information as available from the site visit.				
Project participant response				Date: 14/12/2015
Measurement is indeed done with electricity meters at CEB substation, and invoiced monthly to Sarako after reconciliation with Sarako's internal recordings. The section has been updated accordingly.				
Documentation provided by project participant				
<i>Revised PDD</i>				
DOE assessment				Date: 08/02/2016
PP has clarified the details related to the electricity meters for the project activity. The details provided are in accordance with the validation team observation during the site visit. CEB uses 2 electricity meters for the measurement of the parameter EG _{facility,y} # 14502802 (main) & # 14502803 (back-up). Furthermore, the data from these meters is cross-checked by the PP to check the value from these meters. This ensures that the QA/QC procedures are followed correctly for monitoring of the parameter.				

CAR ID	07	Section no.	D.8.8	Date: 07/12/2015
Description of CAR				

In section B.7.1 of the PDD, details related to Backup meter and PP meter. Also, the calibration procedures have not been provided in accordance with the supporting evidence provided from CEB, Mauritius.	
Project participant response	Date: 14/12/2015
Detail of Main vs. Back-up CEB meters have been clarified. Besides, it has been added that "As per PPA §12.1.4, CEB shall inspect each CEB Meter upon installation and at least once every year thereafter. CEB shall check the certification of CEB Meters through an accuracy test at least once every 4 (four) years thereafter or at any time the readings of Net Energy from the CEB Meter and Seller Back-up Meter differ by an amount greater than 0.5%.	
Sarako's internal meter is a Schneider Electric PowerLogic® ION8600, accuracy class 0.2S. ION meters are digital and do not require calibration, only verification of their accuracy, as per manufacturer's specifications."	
Documentation provided by project participant	
<i>Revised PDD</i>	
DOE assessment	Date: 08/02/2016
The calibration and QA/QC procedure for the parameter $EG_{facility,y}$ have been provided in section B.7.1 of the PDD. The serial number of the meters for main and backup meters have also been provided. However, serial number of the PP meter has not been provided in section B.7.1 of the PDD.	
Project participant response	Date: 24/02/2016
The serial number of Sarako's internal meter (MT-1309A052-01) has been inserted into section B.7.1 of the PDD.	
Documentation provided by project participant	
<i>Revised PDD</i>	
DOE assessment	Date: 15/03/2016
The serial number of the internal meter for the measurement of the parameter $EG_{facility,y}$ has been provided in section B.7.1 of the PDD.	

CAR ID	08	Section no.	D.8.1	Date: 07/12/2015
Description of CAR				
The latest version of the tool for calculation of emission factor has not been used for the project activity.				
Project participant response				Date: 14/12/2015
<i>The PDD has been updated according to the latest version of the tool.</i>				
Documentation provided by project participant				
<i>Revised PDD</i>				
DOE assessment				Date: 08/02/2016
It needs to be clarified that the value calculated for the emission factor is appropriate considering that there is approved standardised baseline (ASB0019) on the emission factor of grid for Mauritius. Please refer to the following web-link: https://cdm.unfccc.int/methodologies/standard_base/new/sb7_index.html				
Further, in accordance with the section 17(d) of the VVS version 09 the conservativeness of the value used for emission factor needs to be justified in comparison with the value as available in ASB0019.				
Project participant response				Date: 24/02/2016
To be conservative, the PDD, notably sections B.2 and B.6, and ER calculations excel-sheet have been revised integrating the recently approved standardized baseline ASB0019.				
Documentation provided by project participant				
DOE assessment				Date: 15/03/2016
PP has used the approved standardised baseline (ASB0019) on the emission factor of grid for Mauritius for the emission factor. This is acceptable to the validation team.				

CAR ID	09	Section no.	D.8.7	Date: 07/06/2016
Description of CAR				
The compliance of PLF (Plant load factor) used for the calculation of expected energy generation has not been done in accordance with Para 3 (a) and (b) of EB 48, Annex 11.				
Project participant response				Date: 08/06/2016
Section A.3 has been corrected with a "net annual output is expected at 24 GWh as provided to banks and/or equity financiers in the financial model, corresponding to a plant load factor of 18.26%"				
Documentation provided by project participant				
<i>Revised PDD and ER spreadsheet</i>				
DOE assessment				Date: 14/06/2016
Evidence for the value used for the plant load factor has not been provided to the validation team.				

Project participant response	Date: 01/08/2016
As per earlier mail provided, financial model is available. Yet since the project has already operated for 2 years, ex-post consistency of the ex-ante PLF estimation can be double-checked from already issued pre-VCS voluntary verification period, besides the conservative application of a 0.8% yearly technical degradation factor.	
Documentation provided by project participant	
Sarako Financial Model 15MW-Final Model.pdf	
DOE assessment	Date: 02/08/2016
The value of the PLF provided to the validation team is based on the plant load factor of 18.26 %. Furthermore, the electricity generation is subjected to 0.8 % technical degradation. The plant load factor used is in accordance with the para 3 (a) of the EB 48, Annex 11.	

CAR ID	10	Section no.	D.9	Date: 07/06/2016																		
Description of CAR																						
The start date of the project as per the PDD is 01/08/2013, that is the date on which the civil construction started for the project activity. It is required to be demonstrated in the PDD that this date is the earliest date when the real action on the project begins in line with the requirements of Glossary of CDM terms, while doing so please provide all milestone of project implementation in tabular form.																						
Project participant response				Date: 08/06/2016																		
Start date has been supported with the following Table 7: Project implementation milestones (section C.1.1):																						
<table border="1"> <thead> <tr> <th>Milestones</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>Measurements and planning</td> <td>Mar-Apr. 2013</td> </tr> <tr> <td>Local stakeholders consultations</td> <td>Apr-Jun. 2013</td> </tr> <tr> <td>Site preparation (civil works)</td> <td>August 2013</td> </tr> <tr> <td></td> <td>>> start date</td> </tr> <tr> <td>EIA license</td> <td>19/08/2013</td> </tr> <tr> <td>Building and Land Use Permit</td> <td>15/11/2013</td> </tr> <tr> <td>Drilling and mounting of the panels</td> <td>Nov-Dec. 2013</td> </tr> <tr> <td>Commissioning Date</td> <td>18/02/2014</td> </tr> </tbody> </table>					Milestones	Date	Measurements and planning	Mar-Apr. 2013	Local stakeholders consultations	Apr-Jun. 2013	Site preparation (civil works)	August 2013		>> start date	EIA license	19/08/2013	Building and Land Use Permit	15/11/2013	Drilling and mounting of the panels	Nov-Dec. 2013	Commissioning Date	18/02/2014
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Commissioning Date	18/02/2014																					
Documentation provided by project participant																						
Revised PDD																						
DOE assessment				Date: 14/06/2016																		
It needs to be clarified how earlier dates than the site preparation do not meet the definition in the Glossary of CDM terms for the start date of a project activity.																						
Project participant response				Date: 01/08/2016																		
As added in section C.1.1 besides the Glossary definition of "implementation or construction or real action of a CDM project activity", according to EB41 clarifications, minor pre-project expenses, e.g. the contracting of services /payment of fees for feasibility studies or preliminary surveys, should not be considered in the determination of the start date as they do not necessarily indicate the commencement of implementation of the project.																						
Documentation provided by project participant																						
Revised PDD																						
DOE assessment				Date: 06/10/2016																		
PP is required to provide further information on why the date on which contacts signed for equipment was not listed/considered as per para 67 of EB 41 report.																						
Project participant response				Date: 14/10/2016																		
EPC contract was signed on 05/07/2013.																						
Documentation provided by project participant																						
Revised PDD; EPC contract																						
DOE assessment				Date: 17/10/2016																		
The start date of the project activity is the date EPC (Engineering, procurement and construction) contract was signed for the project activity. The start date of the project activity is the earliest date of implementation or construction or real action of the CDM project activity. In accordance with the para 67 of the EB 41 meeting report as the date of signing of EPC contract is considered as the date on which the project participant has committed to expenditures related to the implementation or related to the construction of the project activity. The start date used is also in accordance with the Glossary of CDM Terms.																						

Table 3. FAR from this validation

FAR ID	01	Section no.	D.8.6	Date: 07/06/2016
Description of FAR				
In order to meet the requirements of para 31 of the methodology ACM0002, version 16, a Forward Action Request has been raised for the verifying DOE to check the information on actual capital cost of the project activity at the time of the first verification.				
Project participant response				Date: 08/06/2016
As per the project activity's final financial model capital cost amount to US\$ 37.6 million.				
Documentation provided by project participant				
Sarako Financial Model 15MW-Final Model.pdf				
DOE assessment				Date: 14/06/2016
The capital cost of the project activity has been provided to the validation team however this shall also be checked at the time of first periodic verification to ensure compliance with para 31 of the methodology ACM0002, version 16.				

Appendix 5. Methodology Applicability

The project applies the Approved consolidated baseline and monitoring methodology ACM0002, version 16.0.0 /B07/. Applicability criteria for the baseline methodology /B07/ are assessed by the validation team by means of document review and interview. It is agreed in the validation team's opinion that the project activity fully meets the criteria as described below:

Applicability criteria as per methodology /B07/	Means of Validation
<p>3. <i>This methodology is applicable to grid-connected renewable energy power generation project activities that:</i></p> <p>(a) <i>Install a Greenfield power plant;</i></p> <p>(b) <i>Involve a capacity addition to (an) existing plant(s);</i></p> <p>(c) <i>Involve a retrofit of (an) existing operating plants/units;</i></p> <p>(d) <i>Involve a rehabilitation of (an) existing plant(s)/unit(s); or</i></p> <p>(e) <i>Involve a replacement of (an) existing plant(s)/unit(s).</i></p>	<p>The project activity is a greenfield grid-connected renewable power generation project and involves generation of electricity through a solar photovoltaic power plant. The details of the project activity have been confirmed from the power purchase agreement/05/ and through the interviews with the representatives of the Central Electricity Board, Mauritius/I-h/,/I-i/,/I-j/,/I-k/.</p>
<p>4. <i>The methodology is applicable under the following conditions:</i></p> <p>(a) <i>The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit;</i></p> <p>(b) <i>In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity.</i></p>	<p>The project activity includes renewable power plant of the type solar power plant and involves construction and operation of a solar photovoltaic power plant of 15.2 MW_p capacity. The project activity does not involve any capacity additions, retrofits, rehabilitations or replacements. The details of the project activity have been confirmed from the power purchase agreement/05/ and through the interviews with the representatives of the Central Electricity Board, Mauritius/I-h/,/I-i/,/I-j/,/I-k/.</p>
<p>5. <i>In case of hydro power plants, one of the following conditions shall apply:</i></p> <p>(a) <i>The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or</i></p> <p>(b) <i>The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the</i></p>	<p>This para of the methodology is not applicable to the project type, since there is no hydro power plant involved in the project activity.</p> <p>This has been confirmed from the</p>

<p>power density calculated using equation (3), is greater than 4 W/m²; or</p> <p>(c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (3), is greater than 4 W/m²; or</p> <p>(d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (3), is lower than or equal to 4 W/m², all of the following conditions shall apply:</p> <p>(i) The power density calculated using the total installed capacity of the integrated project, as per equation (4), is greater than 4 W/m²;</p> <p>(ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity;</p> <p>(iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m² shall be:</p> <p>a. Lower than or equal to 15 MW; and</p> <p>b. Less than 10 per cent of the total installed capacity of integrated hydro power project.</p>	<p>project description and the power purchase agreement/05/ and through the interviews with the representatives of the Central Electricity Board, Mauritius/I-h/,/I-i/,/I-j/,/I-k/.</p>
<p>6. In the case of integrated hydro power projects, project proponent shall:</p> <p>7. Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or</p> <p>8. Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum five years prior to implementation of CDM project activity.</p>	<p>This para of the methodology is not applicable to the project type, since there is no hydro power plant involved in the project activity.</p> <p>This has been confirmed from the project description and the power purchase agreement/05/ and through the interviews with the representatives of the Central Electricity Board, Mauritius/I-h/,/I-i/,/I-j/,/I-k/.</p>
<p>9. The methodology is not applicable to:</p> <p>(e) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site;</p> <p>(f) Biomass fired power plants/units.</p>	<p>The project activity is a greenfield solar photovoltaic power project and does not involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site. Also, as the project activity is a solar photovoltaic power project, it does not involve biomass fired power plant. This has been confirmed from the power purchase agreement/05/ and through the interviews with the representatives of the Central Electricity Board, Mauritius/I-h/,/I-i/,/I-j/,/I-k/.</p>
<p>10. In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".</p>	<p>The project activity is a greenfield solar photovoltaic power project and does not involve retrofits, rehabilitations, replacements, or capacity additions. This has been confirmed from the power purchase agreement/05/ and through the interviews with the representatives of the Central Electricity Board, Mauritius/I-h/,/I-i/,/I-j/,/I-k/.</p>

Tool to calculate the emission factor for an electricity system	
<i>This tool may be applied to estimate the OM, BM and/or CM when calculating baseline emissions for a project activity that substitutes grid electricity that is where a project activity supplies electricity to a grid or a project activity that results in savings of electricity that would have been provided by the grid (e.g. demand-side energy efficiency projects).</i>	The tool has been applied to estimate OM, BM and CM when calculating baseline emissions for the project activity as it substitutes grid electricity as it supplies electricity to the national grid of Mauritius, CEB (Central Electricity Board). This has been confirmed from the power purchase agreement/05/ and through the interviews with the representatives of the Central Electricity Board, Mauritius/I-h/,I-i/,I-j/,I-k/.
<i>In case of CDM projects the tool is not applicable if the project electricity system is located partially or totally in an Annex I country.</i>	The project electricity system is completely located in Mauritius, a non-Annex I country and thus the tool is applicable. This has been confirmed from the power purchase agreement/05/ and through the interviews with the representatives of the Central Electricity Board, Mauritius/I-h/,I-i/,I-j/,I-k/.
Standardized Baseline: Grid Emission factor of Mauritius version 1.0	
<i>Clean development mechanism (CDM) project activities can apply this standardized baseline under the following conditions:</i>	
<i>(a) The project activity is implemented in Mauritius and is connected to the project electricity system;</i>	The project activity is implemented in the host country, Mauritius and is connected to the project electricity system, i.e. the power grid of the island of Mauritius in the Republic of Mauritius. This has confirmed through review of the Power Purchase Agreement/05/ signed between CEB and the Project Proponent. This is in accordance with the para 85 and 86 of the VVS version 09/B01/.
<i>(b) The CDM approved methodology that is applied to the project activity requires the determination of CO2 emission factor(s) through the application of the "Tool to calculate the emission factor for an electricity system" (hereinafter referred to as "the tool");</i>	The approved methodology ACM0002, version 16 requires emission factors to be calculated in accordance with the "Tool to calculate the emission factor for an electricity system" as mentioned in para 14 of the methodology ACM0002, version 16/B07/. This is in accordance with the para 85 and 86 of the VVS version 09/B01/.
<i>(c) The project activity uses ex ante option for the grid emission factor as indicated in the tool i.e. no monitoring and recalculation of the emissions factor during the crediting period is required.</i>	The project activity uses ex ante option for the grid emission factor as indicated in the tool as provided in section B.6.2 of the CDM PDD/01-6/ and does not involve monitoring and recalculation of the emissions factor during the crediting period. This is in accordance with the para 85 and 86 of the VVS version 09/B01/.

Appendix 6. Additionality

In accordance with the simplified procedure, the assessment for the additionality has been provided below:

Criteria as per the methodology ACM0002, version 16 /B07/	Means of Validation
<p>The simplified procedure to demonstrate additionality is applicable to the following grid connected electricity generation technologies (positive list):</p> <p>(a) Solar photovoltaic technologies;</p> <p>(b) Solar thermal electricity generation including concentrating Solar Power (CSP);</p> <p>(c) Off-shore wind technologies;</p> <p>(d) Marine wave technologies;</p> <p>(e) Marine tidal technologies.</p>	<p>The applicable technology for the project activity is grid connected electricity generation technology using (a) Solar photovoltaic.</p> <p>This has been confirmed through review of power purchase agreement/05/ for the project activity.</p>
<p>A specific technology in the positive list is defined as automatically additional if at the time of PDD submission any of the following conditions is met:</p> <p>(a) The percentage share of total installed capacity of the specific technology in the total installed grid connected power generation capacity in the host country is equal to or less than two per cent; or</p> <p>(b) The total installed capacity of the technology in the host country is less than or equal to 50 MW.</p>	<p>The total installed capacity for Mauritius is 778.2 MW /05/. Two percent of the total installed capacity is 15.56 MW. The total installed capacity of the specific technology, Solar photovoltaic is 2.71 MW as per the Energy and Water Statistics, 2013/05/.</p> <p>This is below the threshold of 15.56 MW as per para 30 (a) of the methodology ACM0002, version 16/B07/.</p> <p>Further it is also below the criteria of 50 MW installed capacity for the Solar photovoltaic in Mauritius.</p> <p>Thus the project activity meets the threshold and is considered automatically additional.</p>
<p>The project proponents that apply simplified procedure to demonstrate additionality shall provide information on actual capital cost of the project activity or the CPA at the time of the first verification.</p>	<p>PP would provide the information on actual capital cost of the project activity at the time of the first verification as confirmed in section B.5 of the PDD. CL04 had been raised in this regard and has been resolved. FAR 01 has been raised in this regard and shall be checked at the time of first verification.</p>
<p>The above positive list of technologies is valid for three years from the date of entry into force of version 16.0 of ACM0002 on 28 November 2014; the Board may reassess the validity of these simplified procedures and extend or update them if needed. Any update of the simplified procedures does not affect the projects that request registration as a CDM project activity or a programme of activities by 27 November 2017 and apply the simplified procedures contained in version 16.0 of ACM0002.</p>	<p>The above positive list of technologies is valid for three years from 28/11/2014 to 27/11/2017. The project activity is seeking registration during this period and hence is justified in applying the simplified procedure to demonstrate additionality.</p>

In the above background, Validation Team concludes that the project is not a business-as-usual scenario and is additional. The additionality as provided in section 2.5 of the PDD/01/ is justified for the project activity.

Appendix 7. Emission Reduction Calculations

As per para 46 of the methodology, ACM002, version 16/B07/, baseline emissions are calculated using the following equation:

$$BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$$

Where:

BE_y = Baseline emissions in year y (t CO₂/yr)

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)

$EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (t CO₂/MWh)

As per para 48 of the methodology, ACM002, version 16/B07/, $EG_{PJ,y}$ for a greenfield renewable energy power plant is calculated using the following equation:

$$EG_{PJ,y} = EG_{facility,y}$$

Where:

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)

$EG_{facility,y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr)

Calculation of $EF_{grid,CM,y}$

PP has used default emission factor in accordance with the ASB0019: Grid emission factor of Mauritius Version 01.0. Based on ASB0019, the combined margin emission factor and grid emission factor value used to calculate the emission reductions of the La Ferme – Bambous Solar Photovoltaic power plant project is 0.966 tCO₂/MWh. No calculation of any other factor is required with regards to this. The standardized baseline has been applied correctly and meets the requirements of para 89 of the VVS version 09^{B01-1/}.

Calculation of $EG_{PJ,y}$

The expected electricity generation for the project activity is based on net annual output is expected at 24 GWh as provided to banks and/or equity financiers in the financial model^{/17/}, corresponding to a plant load factor of 18.26%. The plant load factor used meets the requirements of para 3 (a) of the EB 48 Annex 11^{/B08/}. The total electricity generation is further subjected to technical degradation of 0.8 % per year. The technical degradation is reasonable. The technical degradation rate has been further cross-checked^{/B05-6/} against publically available information and is within the range of 0.6 % to 58.8 % and is reasonable for the project activity. The average of electricity generation over the crediting period is 22,648 MWh/year.

Quantification of project emissions:

As per para 35 of the methodology/B07/, for most renewable power generation project activities, $PE_y = 0$. However, some project activities may involve project emissions that can be significant. These emissions shall be accounted for as project emissions by using the following equation:

$$PE_y = PE_{FF,y} + PE_{GP,y} + PE_{HP,y}$$

Where:

PE_y = Project emissions in year y (t CO_{2e}/yr)

$PE_{FF,y}$ = Project emissions from fossil fuel consumption in year y (t CO₂/yr)

$PE_{GP,y}$ = Project emissions from the operation of geothermal power plants due to the release of non-condensable gases in year y (t CO₂e/yr)

$PE_{HP,y}$ = Project emissions from water reservoirs of hydro power plants in year y (t CO₂e/yr)

In accordance with para 37 of the methodology, ACM0002, version 16/B07/, emissions due to the use of fossil fuels for the backup generator have been neglected. As the project activity under consideration is a greenfield solar photovoltaic power project, project emissions from fossil fuel consumption, operation of geothermal power plants, and from water reservoirs of hydro power plants are 0.

$$PE_{FF,y} = 0$$

$$PE_{GP,y} = 0$$

$$PE_{HP,y} = 0$$

Quantification of leakage

As per para 60 of the methodology, ACM0002 version 16/B07/, no leakage emissions have been identified for the project activity.

Summary of net GHG emission reductions or removals:

Emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y$$

Where:

ER_y = Emission reductions in year y (t CO₂e/yr)

BE_y = Baseline emissions in year y (t CO₂/yr)

PE_y = Project emissions in year y (t CO₂e/yr)

The total emission reductions calculated for the crediting period are 218,780 tCO₂e. Validation team confirms that all relevant assumptions and data are listed in the project description, including their references and sources and that all data and parameter values used in the project description are considered reasonable in the context of the project and all estimates of the baseline emissions can be replicated using the data and parameter values provided in the project description.

Appendix 8. Validation Protocol

Carbon Check

CDM Validation Protocol

La Ferme – Bambous 15 MW solar power farm in SARA KO PVP Co. Ltd

Table 1: Validation requirements

(based on § 37 of the CDM Modalities and Procedures and on CDM Validation and Verification Standard)

Carbon Check's Checklist question	Ref.	MoV ²	Findings, comments, references, data sources	Draft conclusion	Final conclusion
1. Approval					
1.1 Have Letters of Approval have been provided from all involved Parties? <i>If yes, indicate: when and by which Party the LoA has been issued, with a clear reference to the LoA itself and any supporting documentation; whether the LoA was provided to the DOE by the project participants or directly by the DNA; the means of validation employed to assess the authenticity of the document; and by a clear statement, that the DOE considers the LoA to be valid.</i>	/01/	DR, I	The letter of approval (LoA) for the project activity has not been provided in accordance with para 81, 82 and 83 of the Project Standard version 9.0 and para 51 and 52 of the VVS version 09. CAR 01 has been raised in this regard.	CAR 01	OK
1.2 Are all Parties, who issued the LoA, Parties to the Kyoto Protocol and are this, stated in the LoA?	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK
1.3 Is every LoA from the Parties involved issued by an organization listed as Designated National Authority (DNA) on the UNFCCC web site? <i>Indicate the official name of the DNA and contact person name.</i>	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK
1.4 Is the participation in the CDM project activity voluntary and is this stated in all LoAs? <i>Indicate the source of proof.</i>	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK
1.5 Is the LoA unconditional with respect to 1.2 to 1.4?	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK

² MoV = Means of Verification, DR = Document Review, I = Interview, www = internet search.

1.6 Is the title of the CDM project activity as given in the PDD identical with the title given in all LoAs and Modalities of Communication? <i>Provide Yes/No answer, and include details into Tables 2, 3 and 4 accordingly.</i>	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK
1.7 If any of provided LoAs contains additional specification of the CDM project activity (PDD version number, validation report version number, amount of ER, etc.) are those specifications valid and consistent with other documents?	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK
1.8 Does the project activity involve any public funding from Annex I Parties? If yes, has Annex I Party provided a written confirmation that the use of such funding does not lead to the diversion of the official development assistance.	/01/	DR, I	Depends on closure of CAR 01. The declaration for no ODA applicable for the project activity has not been provided to the validation team. CAR 04 has been raised in this regard.	CAR 01 CAR 04	OK
1.9 Is the MOC provided in line with the latest template available from the UNFCCC	/01/	DR, I	The modalities of communication (MoC) for the project activity has not been provided in accordance with para 86 of the Project Standard version 9.0. CAR 02 has been raised in this regard.	CAR 02	OK
1.10 Is MOC correctly filled and signed by authorized signatories identifying the focal point?	/01/	DR, I	Depends on closure of CAR 02.	CAR 02	OK
1.11 Is the written confirmation obtained by the PP's stating the authorization, specimen signatures and personal details are valid and accurate?	/01/	DR, I	Depends on closure of CAR 02.	CAR 02	OK
2. Participation					
2.1 Are the Parties and project participants (PP) listed in the section A.4 of the PDD correctly and is this information consistent with the	/01/	DR, I	Yes, the details of the parties and project participant (PP) as listed in section A.4 of the PDD, cover page of the PDD and the	OK	OK

contact details provided in Appendix 1 of the PDD?			contact details provided in Appendix 1 of the PDD are consistent.		
2.2 Has every Party involved approved the participation of each corresponding PP, either by means of a LoA or by a separate written document? <i>Indicate Yes / No answer and describe all inconsistencies in the Tables 2, 3 and 4 accordingly.</i>	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK
2.3 Do all participating Parties fulfill the participation requirements as follows: a) Party has ratified the Kyoto Protocol b) Party has designated a Designated National Authority c) The assigned amount has been determined	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK
2.4 Do the letters of approval meet the following requirements? a) LoA confirms that Party has ratified the Kyoto Protocol b) LoA confirms that participation is voluntary c) The LoA confirms that the project contributes to the sustainable development of the host country? d) The LoA refers to the precise project activity title in the PDD <i>In case of doubt regarding the authenticity of the letter of approval, describe how it was verified that the letter of approval is authentic</i>	/01/	DR, I	Depends on closure of CAR 01.	CAR 01	OK
3. Project Design Document					
3.1 Is the PDD presented for validation based on the latest template available at the UNFCCC website? <i>Indicate Yes / No answer and describe all inconsistencies in the Tables 2, 3 and 4 accordingly.</i>	/01/ /B03/	DR, I	Yes, the PDD has been presented for validation based on the latest template available at the UNFCCC website.	OK	OK
3.2 Has the PDD been established in accordance	/01/	DR, I	The PDD doesn't follow all the requirements	CAR 03	OK

with the CDM requirements for completing PDDs issued by the CDM EB?	/B03/		<p>from the PDD instructions for completing the template form and thus do not meet the requirements of para 89 of the Project Standard version 09 and para 70 of the VVS version 09:</p> <ol style="list-style-type: none"> 1. In section A.1 of the PDD all the requirements have not been followed: <ol style="list-style-type: none"> a. Include a brief description of how the project activity contributes to sustainable development (not more than one page). b. Confirm that the proposed CDM project activity is not a CPA that has been excluded from a registered CDM PoA as a result of erroneous inclusion of CPAs. 2. Section A.2.4 of the PDD does not meet the requirements of the form filling guidelines: <ol style="list-style-type: none"> a. Provide details of the physical/geographical location of the project activity, including information allowing the unique identification of this project activity and a map. Do not exceed one page for the description of location. b. Also, the geographical coordinates are not provided in decimal format as a requirement for the UNFCCC interface. 3. Section A.3 of the PDD does not meet the following requirements of the form filling guidelines: <ol style="list-style-type: none"> a. A list and the arrangement of the main manufacturing/production 		
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			<p>technologies, systems and equipment involved. Include in the description information about the age and average lifetime of the equipment based on manufacturer's specifications and industry standards, and existing and forecast installed capacities, load factors and efficiencies. The monitoring equipments and their location in the systems are of particular importance;</p> <p>b. Include a description of how the technologies and measures and know-how to be used are transferred to the host Party.</p> <p>4. Section A.3 of the PDD does not meet the following requirements of the form filling guidelines:</p> <p>a. Explain documentation that has been used and provide the references to it or include the documentation in Appendix 3. Below</p> <p>5. Section E.3 of the PDD does not meet the following requirements of the form filling guidelines:</p> <p>a. Provide information demonstrating that all comments and complaints received, including comments and complaints forwarded by the DNA of the host Party, if any, have been considered.</p> <p>CAR 3 had been raised in this regard and has been resolved.</p>	
4. Project Description				

<p>4.1 Does the PDD contain a description, which provides the reader with a clear understanding of the precise nature of the project activity and the technical aspects of its implementation?</p> <p>4.1b) Is the description (incl. any process flow-charts, Spreadsheets etc.) complete, coherent and consistent with the provisions of the monitoring plan?</p> <p>4.1c) Is the project's location clearly defined?</p>	/01/	DR, I	<p>The module efficiency of the solar PV modules as provided in section A.3 does not match exactly with the efficiency as provided in the supporting document (technical specifications) for the panel provided.</p> <p>CL-02 has been raised in this regard.</p> <p>The location of the project activity is clearly defined in the section A.2.4 of the PDD.</p>	CL-02	OK
<p>4.2 In the case of greenfield project activity, is the project design described sufficiently by means of specifications, drawings and manuals?</p> <p><i>Provide Yes/No answer and indicate the documents which have been reviewed in relation to the issue.</i></p>	/01/	DR, I	<p>The project is a greenfield activity. The relevant specification, drawings and manuals of the project activity have been provided to the validation team. The specifications as provided in the PDD have been cross-checked with the Power Purchase Agreement, Site Plan, Technical Specifications of the PV module, ABB inverter description and backup DG specification. The project activity construction started on 01/08/2013 (starting date of the project activity). The project activity started supplying electricity to the grid on 18/02/2014.</p>	OK	OK
<p>4.3 Does the project activity reflects current good practices, uses state of the art technology or would the technology result in a significantly better performance, than any commonly used technologies in the host country?</p> <p><i>Provide the description of how validation has been carried out and what comparisons have been made.</i></p>	/01/	DR, I	<p>Yes, the project activity reflects current good practices and uses solar technology in Mauritius where total share of solar PV is negligible (total 2.71 MW).</p>	OK	OK
4.4 In cases where the project activity involves the	/01/	DR, I	The project is a greenfield project activity	OK	OK

<p>alteration of an existing installation or process, does the PDD provide a clear description of the differences between the project and the pre-project scenario?</p> <p><i>Please, provide Yes/Now answer and update Tables 2, 3 and 4 accordingly, if there is anything unclear in the provided description.</i></p>			and does not involve the alteration of any existing installation or process. There is no difference between the project and the pre-project scenario.		
<p>4.5 What type is the project? If small scale – whether is it Type I or type II or type III?</p> <p>Type I – is maximum output capacity is equal or less then 15MW</p> <p>Type II – is maximum output equal or less then 60GWh/year</p> <p>Type III – is maximum output exceeds 60GWh/year</p> <p>i) Project in existing facility or utilizing existing equipment(s)</p> <p>ii) Project is either a large scale project or a non-bundled small scale project with emission reductions exceeding 15 000 tCO₂e per year. In this case, a site visit must be performed.</p> <p>iii) Project is a bundled small scale project, with each project in the bundle with emission reductions not exceeding 15,000 tCO₂e per year. In such case the number of physical site visits may be based on sampling, if the sampling size is appropriately justified through statistical analysis.</p> <p>iv) The project is an individual small scale project activity with emission reductions not exceeding 15 000 tCO₂e per year. In this case, DOE may not conduct a physical site visit as appropriate.</p> <p>v) Greenfield project</p> <p>For small scale biomass, biofuel and biogas project activity – the maximal limit is 15MW (e) and</p>	/01/	DR, I	Project is a greenfield large scale project and involves power generation from solar PV with an installed capacity of 15.2 MW. The project is located in Eau Bonne, Bambous (Mauritius). The project supplies the electricity to the grid of Mauritius.	OK	OK

45MWth thermal output. For small scale solar energy projects with exceptional of parabolic and trough type collectors – rest all shall have maximum output eligibility limit in terms of aperture area is 64000m ² .					
4.6 How was the design of the project assessed? i) Physical site inspection ii) Reviewing available designs and feasibility studies <i>If a physical site inspection is not undertaken, justify why no site visit was undertaken:</i>	/01/	DR, I	The design of the project was assessed through physical site inspection and through the review of Power Purchase Agreement, Site Plan, Technical Specifications of the PV module, ABB inverter description and backup DG specification.	OK	OK
5. Baseline and Monitoring methodology					
5.1 General requirements					
5.1.1 Is the methodology used in the project activity approved by the CDM EB and is the selected version still valid? <i>If during the course of validation the originally applied version of the methodology expires, a CAR shall be raised in the validation protocol. Any new requirements of the revised version of the methodology not yet validated in the validation protocol shall be validated in as part of the assessment of the CAR raised.</i>	/01/ /B02/	DR, I	Yes, the methodology used in the project activity, ACM0002 “Grid-connected electricity generation from renewable sources” version 16 is approved by the CDM EB and the version is still valid. In section B.1 of the PDD, tool “Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period” has been referred. It is not clear if the tool has been used in the project activity. CL 03 has been raised in this regard.	CL-03	OK
5.2 Applicability of the selected methodology					
5.2.1 Does the project activity qualify under the criteria for small-scale CDM project activities set out in § 6 (c) of decision 17/CP.7 and Annex II of the Modalities and Procedures for the CDM?	/01/ /B02/	DR, I	The project activity does not qualify as a small-scale project activity and is a large scale project activity. The project is using a large scale methodology ACM0002, version 16.	OK	OK

<p>5.2.1a) If the project applies a small-scale methodology, does the project also comply with the general guidelines to SSC CDM methodologies, which provides guidelines on equipment capacity, equipment performance/lifetime, baseline identification for type-II/III Greenfield project activities, sampling and other monitoring-related issues?</p> <p>In case of replacement of existing equipment's – « tool to determine the remaining lifetime of equipment» shall be referred. This can be disregarded for household devices/appliances.</p>					
<p>5.2.1.1 If yes, does the PDD extensively demonstrates and confirms that the small-scale project activity is not a debundled component of a larger project?</p> <p><i>Please indicate Yes/No answer. In case of positive conclusion provide details of the validation measures taken and data found during the procedure. Otherwise amend the Tables 2, 3 and 4 accordingly.</i></p>	/01/ /B02/	DR, I	Not Applicable.	OK	OK
<p>5.2.2 Are all applicability conditions of the selected baseline and monitoring methodology and all tools involved satisfied by the project activity?</p> <p><i>Please indicate Yes/No answer. In case of positive conclusion provide details of the validation measures. Otherwise amend the Tables 2, 3 and 4 accordingly.</i></p>	/01/ /B02/	DR, I	<p>Yes, all the applicability conditions of the selected baseline and monitoring methodology and all tools involved have been satisfied by the project activity. A detailed assessment of the applicability has been provided in section Appendix 5 of this report.</p> <p>In order to meet the requirements of section 31 of the methodology ACM0002, version 16, it is not clear if the PP would provide the information on actual capital cost of the project activity at the time of the first verification.</p>	CL-04	OK

			CL-04 has been raised in this regard.		
5.2.3 Is the selection of the applied baseline and monitoring methodology justified?	/01/ /B02/	DR, I	Yes, the selection of the applied baseline and monitoring methodology is justified.	OK	OK
5.2.4 Is the selected methodology correctly quoted in all related documents?	/01/ /02/ /B02/	DR, I	Yes, the selected methodology has been correctly quoted in other documents such as PDD and ER sheet.	OK	OK
5.2.5 Does the PDD sufficiently describe all the GHG emission sources or sinks occurring as a result of project activity, which have not been accounted for under the selected methodology and are expected to contribute more than 1% of the overall expected average annual emission reductions? <i>Provide Yes/No answer. Indicate the sources or sinks of GHG, which were proved to be negligible. Otherwise amend the Tables 2, 3 and 4 accordingly.</i>	/01/ /B02/	DR, I	In section B.3 of the PDD, the justification for the GHGs involved has not been provided specific to the project. CSP related emissions are also stated. CAR-05 has been raised in this regard.	CAR-05	OK
5.3 Project boundary					
5.3.1 Does the PDD correctly describe the project boundary? Are they clearly defined and in accordance with the methodology? <i>Provide Yes/No answer. And amend the Tables 2, 3 and 4, if needed.</i>	/01/ /B02/	DR, I	The geographical boundary of the project activity has been provided. In accordance with the para 21 of the methodology ACM0002 version 16, the spatial extent of the project boundary has been provided in section B.3 of the PDD. The spatial extent of the project boundary includes the project power plant/unit and all power plants/units connected physically to the electricity system that the CDM project power plant is connected to. The project boundary is therefore determined as: - the project activity site, where the electricity is being produced, - the Mauritius grid that the power plant is connected to.	OK	OK

5.3.2 Does the PDD correctly indicate and describe the emission sources and sinks of GHG gases that are included in the project boundary?	/01/ /B02/	DR, I	Depends on closure of CAR-05	CAR-05	OK
5.3.3 In cases where the methodology allows project participants to choose whether a source or gas is to be included in the project boundary, is the choice explained and justified by PPs?	/01/ /B02/	DR, I	Depends on closure of CAR-05	CAR-05	OK
5.3.4 Does the project involve other emissions sources not foreseen by the methodologies that may question the applicability of the methodology? Do these sources contribute with more than 1% of the estimated emission reductions of the project?	/01/ /B02/	DR, I	No other emissions sources are foreseen other than that listed in methodology.	OK	OK
5.4 Baseline identification					
5.4.1 Has the procedure contained in the selected methodology to identify the most reasonable baseline scenario been applied correctly and documented in the PDD?	/01/ /B02/	DR, I	The baseline identification has been done in accordance with the para 23 of the methodology. The baseline scenario for the project activity is "Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system."	OK	OK
5.4.1.1 Is the identified baseline scenario plausible?	/01/ /B02/	DR, I	Yes, the identified baseline scenario is plausible and meets the requirements of the methodology ACM0002, version 16.	OK	OK
5.4.1.2 Are all assumptions stated in a transparent and conservative manner?	/01/ /B02/	DR, I	There are no assumptions made regarding the baseline scenario.	OK	OK
5.4.2 Does the selected methodology require the	/01/	DR, I	The methodology doesn't require use of	OK	OK

use of tools and does PDD reflects that correctly?	/B02/		any tool to identify baseline scenario.		
5.4.2.1 Were all the tools applied correctly?	/01/ /B02/	DR, I	Not Applicable.	OK	OK
5.4.3 In case the methodology requires several alternative scenarios to be considered in the identification of the most reasonable baseline scenario, have all scenarios been considered and have no reasonable alternative scenario been excluded?	/01/ /B02/	DR, I	Not Applicable	OK	OK
5.4.3.1 Has the choice of the baseline scenario been done using conservative assumptions?	/01/ /B02/	DR, I	Yes, the baseline scenario has been identified using conservative assumptions.	OK	OK
5.4.4 Is the identified baseline scenario reasonable according to the assumptions, calculations and rationales used in the PDD and other reference sources?	/01/ /B02/	DR, I	Yes, the identified scenario is reasonable.	OK	OK
5.4.6 Does the PDD describe how the national and sectoral policies, macro-economic trends and political aspirations relevant to the baseline scenario have been identified and considered in the PDD?	/01/ /B02/	DR, I	The national and sectoral policies relevant to the baseline scenario have been identified and considered in the PDD.	OK	OK
5.4.7 Does the PDD provide a verifiable description of the identified baseline scenario, including a description of the technology that would be employed and/or the activities that would take place in the absence of the project activity?	/01/ /B02/	DR, I	Yes, the PDD provides a verifiable description of the identified baseline scenario. In absence of the project activity the electricity to the grid would continue to be supplied from other sources of electricity including mainly fossil fuel powered plants.	OK	OK
5.5 Algorithm and/or formulae used to determine emission reductions					
5.5.1 Are all calculations applied and documented according to the selected methodology and in a complete and transparent manner to calculate emission reductions from the project activity?	/01/ /B02/	DR, I	The latest version of the tool for calculation of emission factor has not been used for the project activity. CAR 08 has been raised in this regard.	CAR 08 CL 05 CL 06 CL 07	OK

5.5.1b) Are correct units applied and consistency between parameter dimensions and parameter value ensured? <i>See also Question 4.1.b) with respect to consistency of parameter values between calculation spreadsheets and PDD.</i>			<p>Generation data as provided in the ER sheet does not match with the supporting document spreadsheet provided for calculation. Also, the generation data in the supporting document sheet provided for Feb 2014 does not match with the invoice.</p> <p>CL 05 has been raised in this regard.</p> <p>The source of data for all power plants as used in the GEF calculation spreadsheet is not available from the supporting document provided, for power plants other than Hydro and thermal. Date of commissioning and fuel type related data is also not available from the data source provided.</p> <p>CL 06 has been raised in this regard.</p> <p>In section B.6.1 of the PD it is stated that “no auxiliary fossil fuel consumption”, however it was observed during the site visit that a backup generator has been used for the site office.</p> <p>CL 07 has been raised in this regard.</p>		
5.5.2 In case the methodology allows a selection between different options for equations or parameters, has adequate justification been given and have the correct equations and parameters been used, in accordance with the methodology selected?	/01/ /B02/	DR, I	Depends on closure of CAR 08, CL 05, CL 06 and CL 07.	CAR 08 CL 05 CL 06 CL 07	OK
5.5.3 In case some data and parameters will not be monitored throughout the crediting period,	/01/ /B02/	DR, I	Depends on closure of CAR 08, CL 05, CL 06 and CL 07.	CAR 08 CL 05	OK

but have already been determined and fixed, are all data sources, assumptions and calculations correct, applicable to the proposed CDM project activity and conservative? Please list all ex-ante parameters (as below) along with their values and provide an assessment on its appropriateness.				CL-06 CL-07	
Parameter: Combined margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" ($EF_{grid,CM,y}$) Value: 0.9981 tCO ₂ /MWh Source of value: Calculated in accordance with "Tool to calculate the emission factor for an electricity system" version 05 based on the data provided by CEB.	/01/ /B02/	DR, I	Depends on closure of CL-06 and CAR-08	CAR-08 CL-06	OK
Parameter: Operating Margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" ($EF_{grid,OM,y}$) Value: 1.0461 tCO ₂ /MWh Source of value: Calculated in accordance with "Tool to calculate the emission factor for an electricity system" version 05 based on the data provided by CEB.	/01/ /B02/	DR, I	Depends on closure of CL-06 and CAR-08	CAR-08 CL-06	OK
Parameter: Build Margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" ($EF_{grid,OM,y}$) Value: 0.8540 tCO ₂ /MWh Source of value: Calculated in accordance with "Tool to calculate the emission factor for an	/01/ /B02/	DR, I	Depends on closure of CL-06 and CAR-08	CAR-08 CL-06	OK

electricity system” version 05 based on the data provided by CEB.					
Parameter: The percentage share of total installed capacity of the solar PV in the total installed grid connected power generation capacity in the host country (The percentage share of total installed capacity of solar PV) Value: 0.0 % Source of value: Statistics Mauritius (2014): Digest of Water and Energy Statistics - 2013, Port Louis.	/01/ /12/ /B02/	DR, I	The percentage share of total installed capacity of the solar PV in the total installed grid is based on the Energy Statistics data for Mauritius. It has total 2.46 MW of solar PV installed capacity for the year 2013. However, there is no grid connected PV in Mauritius till the year 2013. The total capacity of the grid is 501.22 MW.	OK	OK
Parameter: The total installed capacity of solar PV (The total installed capacity of the solar PV in the host country) Value: 2.71 MW Source of value: Statistics Mauritius (2014): Digest of Water and Energy Statistics - 2013, Port Louis.	/01/ /12/ /B02/	DR, I	The percentage share of total installed capacity of the solar PV in the total installed grid is based on the Energy Statistics data for Mauritius. It has total 2.46 MW of solar PV installed capacity for the year 2013. However, there is no grid connected PV in Mauritius till the year 2013. The total capacity of the grid is 501.22 MW.	OK	OK
5.5.4 In case data and parameters will be monitored on implementation and hence become available only after validation of the project activity, are the estimates provided in the PDD for these data and parameters reasonable?	/01/ /B02/	DR, I	CL-05 has been raised with regards to the assumptions made for the monitored parameter EG_{facility,y}	CL-05	OK
5.5.5 Have the major risks and uncertainties, which can influence the emission reduction estimates, been identified and addressed in the PDD?	/01/ /B02/	DR, I	Depends on closure of CAR-08, CL-05, CL-06 and CL-07.	CAR-08 CL-05 CL-06 CL-07	OK
5.5.6 Are the calculations documented according to the approved methodology and in a complete and transparent manner in calculating the project emissions? Have conservative assumptions been used when	/01/ /B02/	DR, I	Depends on closure of CAR-08, CL-05, CL-06 and CL-07.	CAR-08 CL-05 CL-06 CL-07	OK

calculating the project emissions?					
5.5.7 Are uncertainties in the project emission estimates properly addressed?	/01/ /B02/	DR, I	Depends on closure of CAR 08, CL 05, CL 06 and CL 07.	CAR 08 CL 05 CL 06 CL 07	OK
5.5.8 Does any of the parameters require the use of sampling? If yes – how the sampling is been carried out Refer «standard for sampling and surveys for CDM project activities and programme of activities»	/01/ /B02/	DR, I	No parameter requires sampling of data, hence not applicable.	OK	OK
5.6 Leakage					
5.6.1 Has the leakage been identified and calculated according to the approved methodology?	/01/ /B02/	DR, I	In accordance with the para 60 of the methodology ACM0002, version 16 no leakage emissions have been identified for the project activity.	OK	OK
5.6.2 Have the leakage been addressed in complete, conservative and substantiated manner? Note: for small scale project activity – the leakage should be considered within the non-annex 1 parties.	/01/ /B02/	DR, I	Not Applicable	OK	OK
5.6.3 Are uncertainties in the leakage emission estimates properly addressed?	/01/ /B02/	DR, I	Not Applicable	OK	OK
6. Additionality					
6 a) What approach/tool does the project use to assess additionality? Is this in line with the methodology? In case of small-scale CDM project activities, is Attachment A to Appendix B of the simplified modalities and procedures for small-scale CDM project activities applied considering also the “Non-binding best practice examples to demonstrate additionality for SSC project activities” with any applicable additionality tools.	/01/ /B02/	DR, I	The approach to demonstrate additionality for the project activity does not use any tool. The additionality has been demonstrated in accordance with the para 29 and 30 of the methodology ACM0002, version 16. The project activity is a grid connected electricity generation solar photovoltaic technologies and thus meets the applicability requirement of 29 (a) of the methodology ACM0002, version 16. The	OK	OK

For microscale projects « guidelines for demonstrating additionality of microscale project activities» shall be referred.			specific technology (solar PV) is automatically additional as percentage share of the total installed capacity is 2.46 MW. The total capacity of the grid is 501.22 MW. Thus the installed technology meets the requirements of both conditions of the para 30 of the methodology, ACM0002 version 16.		
6 b) Have the regulatory requirements correctly been taken into account to evaluate the project activity and the alternatives? Is sufficient evidence provided to support the relevance of the arguments made?	/01/ /B02/	DR, I	Not applicable	OK	OK
6 c) What is the project additionality mainly based on (Investment analysis or barrier analysis)?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.1 Prior consideration of the CDM					
6.1.1 Is there documented evidence provided by the project participants on how and when the decision to proceed with the project activity was taken?	/01/ /B02/	DR, I	PP has provided the chronology of the events for the project activity through a link.	OK	OK
6.1.2 Is the starting date of the project activity, reported in the PDD, in accordance with the “Glossary of CDM terms”? <i>Note: Confirm the starting date indicated in C.1.1 is consistent within the PDD, in particular with respect to the project implementation history.</i>	/01/ /B02/	DR, I	The start date of the project activity is 01/08/2013, that is the date on which the civil construction started for the project activity. Since, the company Sarako (PP) was setup in March 2013 and the real action taken by the PP after the date is the civil construction and thus the start date is in accordance with the “Glossary of CDM term”.	OK	OK
6.1.3 Is the date stated in the provided evidence consistent with other available real action evidence (e.g. dates of construction, purchase orders for equipment)? <i>Note: In case where the project is not started but the project PDD is already webhosted – the expected start date can be considered.</i>	/01/ /B02/	DR, I	Yes, the date stated is consistent with the other dates for the project activity.	OK	OK

6.1.4 If the project was not published and the starting date is on or after 2nd August 2008, was it possible to receive from UNFCCC secretariat and DNA a written confirmation that PPs previously informed the above entities on commencement of the project activity and of their intention to seek CDM status?	/01/ /B02/ /B07/ /B06/	DR, I	The prior consideration for the project activity has been done on 28/11/2013 and is within six months of the start date of the project activity in accordance with the para 2 of EB 62 Annex 13.	OK	OK
6.1.5 For the project activities with a starting date before 2nd August 2008 and before the actual publication, was there enough evidence presented to prove that PPs were previously aware of CDM?	/01/ /B02/ /B07/	DR, I	Not Applicable	OK	OK
6.1.6 For the project activities with a starting date before 2nd August 2008 and before the actual publication, was there enough evidence presented to prove that CDM benefits have been a decisive factor in the decision to proceed with the project activity?	/01/ /B02/ /B07/	DR, I	Not Applicable	OK	OK
6.1.7 Does the individual or body that took the decision to proceed with the project activity have/had the authority to do so?	/01/ /B02/ /B07/	DR, I	Not Applicable	OK	OK
6.1.8 For the project activities with a starting date before 2nd August 2008 and before the actual publication, was there enough evidence presented to prove that PPs were taking continuing and real actions to secure CDM status for the project in parallel with its implementation?	/01/ /B02/ /B07/	DR, I	Not Applicable	OK	OK
6.1.9 In case there is a significant gap between the start date of the project activity and the commencement of validation, how was it possible for the project participant to commit funds to the project in advance of receiving a positive validation opinion?	/01/ /B02/ /B06/	DR, I	There is no significant gap between the start date of the project activity and the commencement of validation. The start date of the project activity is 01/08/2013 and the validation of the project activity started in 2015.	OK	OK
6.1.10 How has the starting date of the project	/01/	DR, I	The starting date of the project activity	OK	OK

activity been determined? What are the dates of the first contracts for the project activity? When was the first construction activity?	/B02/ /B06/		01/08/2013 is based on the start date of the civil construction of the project activity (date of first real action), the prior consideration was notified on 28/11/2013.		
6.1.11 Is the stated expected operational lifetime of the project activity reasonable?	/01/ /B02/ /B06/	DR, I	Yes, the expected operational lifetime of the project activity is reasonable and has been cross-checked with some independent sources: http://info.cat.org.uk/questions/pv/life-expectancy-solar-PV-panels http://energyinformative.org/lifespan-solar-panels/	OK	OK
6.1.12 Is the crediting period start date, the type (renewable/fixed) and the length of the crediting period clearly defined and reasonable? <i>Note: the start date of crediting period shall be in dd/mm/yyyy format only. And shall not use any qualification to the start date such as «expected»</i>	/01/ /B02/ /B06/	DR, I	Yes, the crediting period start date of the project is reasonable, the type and length of the crediting period are clearly defined and reasonable.	OK	OK
6.2 Identification of alternatives					
6.2.1 Does the PDD identify and list credible alternatives to the CDM project activity in order to determine the most realistic baseline scenario, unless selected approved methodology prescribes/identifies the baseline scenario and no further analysis is required?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.2.2 Does the list of alternatives include as one of the options that the project activity is undertaken without being registered as a CDM project activity?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.2.3 Does the list contain all realistic/credible alternatives that the DOE, on the basis of its local and sectoral knowledge, considers to be viable means of supplying the outputs or	/01/ /B02/	DR, I	Not applicable	OK	OK

services that are to be supplied by the project activity? <i>Note: All alternatives listed in the selected methodology should be included, as well as those not covered by the methodology.</i>					
6.2.4 Is the exclusion of the alternatives for legal reasons justified? <i>Note: Some alternatives might be illegal, according to the local regulations, but still widely practiced due to lack of enforcement. It should be verified.</i>	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3 Investment Analysis					
6.3.1 Are all sources of revenues (including savings) have been considered in the PDD and all calculations? Refer «guidelines on the assessment of investment analysis»	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.2 Is the type of investment analysis selected correctly in the PDD? Is the choice of benchmark analysis, investment comparison or simple cost analysis correct?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.3 Is the selected financial indicator chosen and applied correctly? Is it on equity/project basis? Before/after tax? Is the financial indicator in correspondence with the benchmark?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.4 Is the guidance on IRR calculation and assessment correctly applied? <i>Note: Means of validation should be recorded. All input parameters need to be assessed and if possible compared with the input parameters applied by similar project activities</i>	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.5 In case project participants use values from Feasibility Study Reports (FSR) is it possible to verify that the period between the FSR date and investment decision was reasonably	/01/ /B02/	DR, I	Not applicable	OK	OK

short and FSR values did not change materially?					
6.3.6 Are all the values consistent between FSR and PDD and are inconsistencies properly justified?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.7 Were all the values from FSR applicable and valid at the time of the investment decision?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.8 Is it reasonable to assume that no investment would be made at a rate of return lower than the benchmark by, for example, assessing previous investment decisions by the project participants or some verifiable circumstances that have led to a change in the benchmark?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.9 Is the Investment Analysis prepared in compliance with the latest version of the "Guidance on the Assessment of Investment Analysis" as provided by the CDM EB?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.10 Do the project include all the data sources used (input & output / loss & profit) and list all the projects that have been used for cross-checking in accordance with VVS . Does the income tax calculation take depreciation into account? Is the depreciation year in accordance with normal accounting practice in the host country? Has salvage value been taken into account? Is working capital returned in the last year of operation? How are the PLF of the project assessed? How are O&M cost assessed?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.3.11 Sensitivity analysis: Have the key parameters contributing to more than 20% of the revenue/costs during operating or implementation been identified? Has possible correlation between the parameters been considered?	/01/ /B02/	DR, I	Not applicable	OK	OK

Is the range of variations (10% in default) is reasonable in the project context? Have the key parameters been vary to reach or cross the benchmark and have the likelihood of this to happen been justified?					
6.4 Barrier analysis					
6.4.1 Are there any issues addressed in the barrier analysis that have a clear impact on the financial viability of the project activity and that shall be assessed by an investment analysis? Refer «guidelines for objective demonstration and assessment of barriers»	/01/ /B02/	DR, I	Not applicable	OK	OK
6.4.2 Do the listed barriers exist and is their existence substantiated? <i>Note: (a) by independent sources of data such as relevant national legislation, surveys of local conditions and national or international statistics and/or (b) by interviews with relevant individuals: including members of industry associations, government officials or local experts if necessary?</i>	/01/ /B02/	DR, I	Not applicable	OK	OK
6.4.3 Would any of the identified barriers prevent the implementation of the project activity but not equally prevent the implementation of the possible alternatives, in particular the implementation of the identified baseline scenario?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.5 Common practice analysis					
6.5.1 If the PPs claim in the PDD that CDM project activity is the “first of its kind”, is it justified? Refer «guideline on additionality of first-of-its-kind activities» and «guideline on common practice»	/01/ /B02/	DR, I	Not applicable	OK	OK
6.5.2 Are the geographical boundaries of the project activity identified correctly?	/01/ /B02/	DR, I	Not applicable	OK	OK

6.5.3 Does the PDD provide an explanation why this region was selected and deemed more appropriate and is this explanation traceable and reliable?	/01/ /B02/	DR, I	Not applicable	OK	OK
6.5.4 Are there similar operational project activities, other than CDM activities, “widely observed and commonly carried out” in the defined region? <i>Note: Use official sources and local and industry expertise.</i>	/01/ /B02/	DR, I	Not applicable	OK	OK
6.5.5 In case there are similar commercially operated project activities, other than CDM activities, already “widely observed and commonly carried out” in the defined region, are there essential distinctions between the CDM project activity and the other similar activities?	/01/ /B02/	DR, I	Not applicable	OK	OK
7. Monitoring plan					
7.1 Are all parameters required by the selected approved methodology or tool identified and listed in the PDD?	/01/ /B02/	DR, I	There is only one monitoring parameter (Parameter no 14) applicable to the project activity in accordance with section 6.1 of the methodology, ACM0002, version 16: Quantity of net electricity generation supplied by the project plant/unit to the grid in year y ($EG_{facility,y}$). The parameter has been listed in section B.7.1 of the PDD.	OK	OK
7.2 Is the measurement method clearly stated for each value to be monitored and deemed appropriate? Does the monitoring plan record data in the original form as generated, providing QA/QC procedures to be used on the measurement method?	/01/ /B02/	DR, I	In section B.7.1 of the PDD, the details as provided in Source of data and description of measurement methods do not match with the monitoring equipment stated and the information as available from the site visit. CAR 06 has been raised in this regard.	CAR 06 CAR 07	OK

			<p>In section B.7.1 of the PD, details related to Backup meter and PP meter. Also, the calibration procedures have not been provided in accordance with the supporting evidence provided from CEB, Mauritius.</p> <p>CAR 07 has been raised in this regard.</p>			
7.3	Are values of the ex-ante parameters / monitoring parameters selected correctly and conservative in accordance to methodology or tools? See the NOTE in section 3.6.1 above!	/01/ /B02/	DR, I	Depends on closure of CAR 06 and CAR 07.	CAR 06 CAR 07	OK
7.4	Is the measurement equipment for each parameter described and deemed appropriate? Are the locations of all measurement equipment clearly identified and consistently described, incl. process flow-charts contained in the PDD?	/01/ /B02/	DR, I	Depends on closure of CAR 06 and CAR 07.	CAR 06 CAR 07	OK
7.5	Is the measurement accuracy addressed and deemed appropriate?	/01/ /B02/	DR, I	Depends on closure of CAR 06 and CAR 07.	CAR 06 CAR 07	OK
7.6	Are procedures in place on how to deal with erroneous measurements and are the corrective actions identified?	/01/ /B02/	DR, I	Depends on closure of CAR 06 and CAR 07.	CAR 06 CAR 07	OK
7.7	Is the frequency of measurement identified and deemed appropriate?	/01/ /B02/	DR, I	Depends on closure of CAR 06 and CAR 07.	CAR 06 CAR 07	OK
7.8	Is the monitoring plan documented according to the approved methodology and in a complete and transparent manner?	/01/ /B02/	DR, I	Depends on closure of CAR 06 and CAR 07.	CAR 06 CAR 07	OK
7.9	Are the sampling, measurement methods and procedures defined?	/01/ /B02/	DR, I	Sampling is not applicable for any monitoring parameter.	OK	OK
7.10	Are procedures identified for maintenance of	/01/	DR, I	Depends on closure of CAR 06 and CAR	CAR 06	OK

monitoring equipment and installations?	/B02/		07.	CAR-07	
7.11 Are the equipment calibration intervals identified and justified? Is the calibration conducted by accredited person or laboratory?	/01/ /B02/	DR, I	Depends on closure of CAR-06 and CAR-07.	CAR-06 CAR-07	OK
7.12 Are procedures identified for day-to-day records handling (including what records to keep, storage area of records and how to process performance documentation)?	/01/ /B02/	DR, I	Yes, the procedures for records handling have been provided.	OK	OK
7.13 Are the monitoring arrangements described in the monitoring plan feasible within the project design?	/01/ /B02/	DR, I	Depends on closure of CAR-06 and CAR-07.	CAR-06 CAR-07	OK
7.14 Are the means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures, sufficient to ensure that the emission reductions achieved by / resulting from the project activity can be reported ex post and verified?	/01/ /B02/	DR, I	Depends on closure of CAR-06 and CAR-07.	CAR-06 CAR-07	OK
7.15 Do the PPs make provisions for personnel training needs?	/01/ /B02/	DR, I	Depends on closure of CAR-06 and CAR-07.	CAR-06 CAR-07	OK
7.16 Is the authority and responsibility of overall project management clearly described?	/01/ /B02/	DR, I	Depends on closure of CAR-06 and CAR-07.	CAR-06 CAR-07	OK
7.17 Are procedures identified for emergency preparedness for cases where emergencies can cause unintended emissions?	/01/ /B02/	DR, I	Depends on closure of CAR-06 and CAR-07.	CAR-06 CAR-07	
7.18 Are procedures identified for review of reported results/data?	/01/ /B02/	DR, I			
7.19 Does responsibilities and institutional arrangements for data collection and archiving in place? Is the data archiving period for this project activity stated in the PDD and appropriate?	/01/ /B02/	DR, I	Yes, the responsibilities for data collection and archiving are provided. The country manager shall be responsible for electronic archiving of the data and it shall be kept for at least 2 years after the crediting period.	OK	OK

7.20	Is the monitoring parameters for all project emissions captured?	/01/ /B02/	DR, I	There are no project emissions applicable for the project activity.	OK	OK
7.21	Will all monitored data required for verification and issuance be kept for two years after the end of the crediting period or the last issuance of CERs, for this project activity, whichever occurs later?	/01/ /B02/	DR, I	Yes, the monitored data required for verification and issuance be kept for two years after the end of the crediting period.	OK	OK
7.22	Are the data management and quality assurance and quality control procedures sufficient to ensure that the emission reductions achieved by/resulting from the project can be reported ex post and verified?	/01/ /B02/	DR, I	Yes, the data management and quality assurance and quality control procedures are sufficient.	OK	OK
7.23	Is operational and management structure in place to implement the monitoring plan?	/01/ /B02/	DR, I	Yes, the operational and management structure has been provided in section B.7.3 to implement the monitoring plan.	OK	OK
7.2 Monitoring of the leakage						
7.2.1	Does the monitoring plan provide for the collection and archiving of all relevant data necessary for determining leakage?	/01/ /B02/	DR, I	In accordance with para 60 of the methodology leakage emissions are not applicable to the project activity.	OK	OK
7.2.2	Is the choice of project leakage indicators made according to selected methodology in a reasonable and conservative manner? <i>Note: local knowledge and sectoral expertise shall also be considered.</i>	/01/ /B02/	DR, I	Not applicable	OK	OK
7.2.3	Is the measurement method clearly stated and deemed appropriate for each leakage value?	/01/ /B02/	DR, I	Not applicable	OK	OK
8. Sustainable development						
8.1	Does the LoA from the Host country DNA contain the confirmation that the proposed CDM project activity contributes to the sustainable development of the host Party?	/01/ /13/ /B02/	DR, I	Depends on closure of CAR-01.	CAR-01	OK
8.2	If PDD indicates any additional environmental benefits of the project, other than GHG emission reductions, were those benefits	/01/ /B02/	DR, I	Depends on closure of CAR-03	CAR-03	OK

properly substantiated?					
09. Stakeholders' consultation and comments					
9.1 Were the stakeholders identified in appropriate and complete manner?	/01/ /11/ /B01-1/	DR, I	Yes, the stakeholders have been identified in appropriate and complete manner.	OK	OK
9.2 Are the identified stakeholders plausible?	/01/ /11/ /B01-1/	DR, I	The identified stakeholders have been checked in the invitation list and found plausible and appropriate for the project activity.	OK	OK
9.3 Does PDD describe the means being used to invite local stakeholder's comments?	/01/ /11/ /B01-1/	DR, I	The local stakeholders were invited by means of: a) Direct communication at the solar farm's visitor center, b) Electronic communication via the project owner's website or telephone number, c) Indirect communication through local and national government authorities and CEB	OK	OK
9.4 Were those means appropriate?	/01/ /11/ /B01-1/	DR, I	Yes, the identified means are appropriate for the project activity.	OK	OK
9.5 Was the project presented to the stakeholders in unbiased manner?	/01/ /11/ /B01-1/	DR, I	Yes, the project was presented to the stakeholders in unbiased manner.	OK	OK
9.6 If a stakeholder consultation process is required by regulations/laws in the host country, has the stakeholder consultation process been carried out in accordance with such regulations/laws?	/01/ /11/ /B01-1/	DR, I	The stakeholder consultation has been done in accordance with the CDM requirements.	OK	OK
9.7 Is a summary of the stakeholder comments provided in the PDD?	/01/ /11/ /B01-1/	DR, I	Yes, a summary of the stakeholder comments has been provided in the PDD	OK	OK
9.8 Has due account of any stakeholder comments been taken by PPs and reflected	/01/ /11/	DR, I	Yes, the stakeholder comments have been considered as confirmed in section	OK	OK

in the PDD?	/B01-1/		E.3 of the PDD.		
9.9 Have any comments been received during the Global Stakeholder Consultation period?	/01/ /B01-1/	DR, I	<p>The global stakeholder comments submitted during the global stakeholder consultation process have been checked by the validation team. One of the comments submitted by lasith is not related to the project activity and in accordance with para 35 and 36 of the VVS version 09 considered not relevant to the project under consideration. The second comment submitted by dicken is also not relevant to the project activity.</p> <p>A clarification request has been raised in this regard to confirm if any of the statements are relevant to the project activity.</p> <p>During the global stakeholder consultation process for the project activity, two comments have been received. One of the comments by lasith is addressed to the DOE and the second comments made by dicken is for the project activity. PP shall provide a clarification on the comments raised by the global stakeholder.</p> <p>CL 01 has been raised in this regard.</p>	CL-01	OK
9.10 Are the comments from the global stakeholder consultation period addressed in the PDD?	/01/ /B01-1/	DR, I	Depends on closure of CL-01.	CL-01	OK
10. Environmental impacts					
10.1 Is the documentation supplied by the PPs regarding environmental impacts relevant and accurately reflected in the PDD?	/01/ /04/ /B01-1/	DR, I	Yes, the EIA report for the project activity has been provided to the validation team and key outcomes provided.	OK	OK

10.2 Is an environmental impact assessment (EIA) required for the CDM project activity? <i>Note: determine by using a review of relevant legislation and local expertise.</i>	/01/ /04/ /B01-1/	DR, I	Yes, an EIA is required for the CDM project activity.	OK	OK
10.3 In case an EIA is required, has the EIA has been approved by local authorities and is the outcome accurately reflected in the PDD?	/01/ /04/ /B01-1/	DR, I	Yes, the EIA has been approved for the project activity. The EIA license has been provided to the project activity on 19/08/2013.	OK	OK
10.4 Does the PDD include a brief description of the environmental effects of the project, including transboundary?	/01/ /04/ /B01-1/	DR, I	Yes, the PDD include a brief description of the environmental effects of the project. No transboundary impacts are applicable.	OK	OK
10.5 Are those effects properly addressed in the design of the project activity?	/01/ /04/ /B01-1/	DR, I	Yes, the effects have been addressed in the project activity.	OK	OK
10.6 Does the project comply with environmental legislation in the host country?	/01/ /04/ /B01-1/	DR, I	Yes, an EIA license has been provided for the project activity.	OK	OK

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	22 July 2016	EB 90, Annex 3 Revision to include provisions related to automatically additional project activities.
01.0	23 March 2015	Initial publication.

Decision Class: Regulatory
Document Type: Form
Business Function: Registration
Keywords: project activities, validation report