



VALIDATION REPORT
**TRICORONA CARBON ASSET
MANAGEMENT PTE LTD**
VALIDATION OF THE
ENLIGHTENED SOLAR POA

BUREAU VERITAS CERTIFICATION

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REVISION No. 01

VALIDATION REPORT



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Client: Tricorona Carbon Asset Management Pte Ltd	Client ref.: Ms.Tatiana Boldyreva
<p>Summary:</p> <p>Bureau Veritas Certification has made the validation of the Enlightened Solar PoA located in Israel on the basis of UNFCCC criteria for the CDM, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 12 of the Kyoto Protocol, the CDM rules and modalities and the subsequent decisions by the CDM Executive Board, as well as the host country criteria.</p> <p>The validation scope is defined as an independent and objective review of the PoA-DD, generic CPA-DD, the baseline study, monitoring plan and other relevant documents, and consisted of the following three phases: i) desk review of the PoA design and the baseline and monitoring plan; ii) follow-up interviews with CME; iii) resolution of outstanding issues and the issuance of the final validation report and opinion. The overall validation, from Contract Review to Validation Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.</p> <p>The first output of the validation process is a list of Clarification and Corrective Actions Requests (CL and CAR), presented in Appendix A. Taking into account this output, the Coordinating/Managing Entity revised its PoA design documents.</p> <p>In summary, it is Bureau Veritas Certification's opinion that the PoA correctly applies the baseline and monitoring methodologies AMS-I.D. Version17 and meets the relevant UNFCCC requirements for the CDM and the relevant host country criteria.</p>	

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PoA title: Enlightened Solar PoA	
Work carried out by: Tim WANG Wei, Team Leader Lucas DOU Yonghua, Team member ZHANG Chen, Team member	
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Flavio Gomes

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1 INTRODUCTION

Tricorona Carbon Asset Management Pte Ltd.(the coordinating/management entity, hereafter called "the CME") has commissioned Bureau Veritas Certification to validate its CDM project Enlightened Solar PoA (hereafter called "the PoA") in Israel.

This report summarizes the findings of the validation of the project, performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

1.1 Objective

The validation serves as programme design verification. The validation is an independent third party assessment of the programme design. In particular, the PoA's baseline, the monitoring plan (MP), and the programme's compliance with relevant UNFCCC and host country criteria are validated in order to confirm that the programme design, as documented, is sound and reasonable, and meets the stated requirements and identified criteria. Validation is a requirement for all CDM programmes and is seen as necessary to provide assurance to stakeholders of the quality of the PoA.

UNFCCC criteria refer to Article 12 of the Kyoto Protocol, the CDM rules and modalities and the subsequent decisions by the CDM Executive Board, as well as the host country criteria.

1.2 Scope

The validation scope is defined as an independent and objective review of the programme design documents, the PoA's baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations.

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

1.3 Validation team

The validation team and internal technical reviewer consist of the following personnel:

FUNCTION	NAME	CODE HOLDER	TASK PERFORMED*
Team Leader	Mr.Tim WANG Wei	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DR <input checked="" type="checkbox"/> SV <input checked="" type="checkbox"/> RI
Team Member	Mr.Lucas DOU Yonghua	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DR <input checked="" type="checkbox"/> SV <input type="checkbox"/> RI
Team Member	Ms.ZHANG Chen	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DR <input checked="" type="checkbox"/> SV <input type="checkbox"/> RI
Internal Technical Reviewer (ITR)	Mr. Ernesto TAN Wenbin	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> DR <input type="checkbox"/> SV <input type="checkbox"/> RI
Specialist supporting ITR	N.A.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> DR <input type="checkbox"/> SV <input type="checkbox"/> RI

*DR = Document Review; SV = Site Visit; RI = Report issuance



2 METHODOLOGY

The overall validation, from Contract Review to Validation Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

In order to ensure transparency, a validation protocol was customized for the project, according to the version 01.2 of the Clean Development Mechanism Validation and Verification Manual issued by the Executive Board at its 55th meeting on 30/07/2010/Ref-1/, version 04.1 of Procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission reductions for a programme of activities dated 02/08/2010(EB55 Annex38)/Ref-2/ and version 01.0 of Stand for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities(EB65 Annex3)/Ref-3/. The protocol shows, in a transparent manner, criteria (requirements), means of validation and the results from validating the identified criteria. The validation protocol serves the following purposes:

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

The completed validation protocol is enclosed in Appendix A to this report.

2.1 Review of Documents

The PoA-DD/1/ and generic CPA-DD/2/ submitted by Biosphere Capital Pte Ltd (Biosphere Capital, the consultant) and additional background documents related to the project design and baseline, i.e. country Law, PoA-DD form, CPA-DD form, Approved methodology, Kyoto Protocol, Clarifications on Validation Requirements to be Checked by a Designated Operational Entity were reviewed.

To address Bureau Veritas Certification corrective action and clarification requests, Biosphere Capital revised the PoA-DD and generic CPA-DD and resubmitted it on 25/07/2012.

The validation findings presented in this report relate to the project as described in the PoA-DD version 3.0/3/ dated 25/07/2012 and generic CPA-DD version 3.0/4/ dated 25/07/2012.

2.2 Follow-up Interviews

On 19/03/2012 Bureau Veritas Certification performed interviews with stakeholders to confirm selected information and to resolve issues identified in the document review. Representatives of CME and consultant were interviewed (see References). The main topics of the interviews are summarized in Table 1.

Table 1 Interview topics

Interviewed organization	Interview topics
Tricorona Carbon Asset Management Pte Ltd(the CME)	<ul style="list-style-type: none"> ➤ Project background information ➤ PoA technology, general operating and implementation framework, maintenance and monitoring capability ➤ Government policies related to solar PV projects ➤ Confirmation that the proposed PoA is a voluntary action ➤ Operation and management arrangement of the PoA(incl. recording, CPA operation, avoiding double counting) ➤ PoA/CPA monitoring and management plan ➤ Stakeholder consultation process ➤ PoA/CPA environment impact ➤ PV projects development in the area
Biosphere Capital(the consultant)	<ul style="list-style-type: none"> ➤ Project background in details ➤ Baseline information ➤ Applicability of selected methodology ➤ Baseline determination ➤ Eligibility criteria for CPA inclusion ➤ Emission reductions calculation ➤ Monitoring plan

2.3 Resolution of Clarification and Corrective Action Requests

The objective of this phase of the validation is to raise the requests for corrective actions and clarification and any other outstanding issues that needed to be clarified for Bureau Veritas Certification positive conclusion on the programme design.

Corrective Action Requests (CAR) is issued, where:

- (a) The CME/project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions;
- (b) The applicable CDM requirements have not been met;
- (c) There is a risk that emission reductions cannot be monitored or calculated.

The validation team may also use the term Clarification Request (CL), if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met.

The validation team may also raise a forward action request (FAR) during validation to identify issues related to programme implementation that require review during the first verification of the CPA under the PoA.

To guarantee the transparency of the verification process, the concerns raised are documented in more detail in the verification protocol in Appendix A.

2.4 Internal Technical Review

The validation report underwent an Internal Technical Review (ITR) before requesting registration of the programme.

The ITR is an independent process performed to examine thoroughly that the process of validation has been carried out in conformance with the requirements of the validation scheme as well as internal Bureau Veritas Certification procedures.



The Team Leader provides a copy of the validation report to the reviewer, including any necessary validation documentation. The reviewer reviews the submitted documentation for conformance with the validation scheme. This will be a comprehensive review of all documentation generated during the validation process.

When performing an Internal Technical Review, the reviewer ensures that:

The validation activity has been performed by the team by exercising utmost diligence and complete adherence to the CDM rules and requirements.

The review encompasses all aspects related to the project which includes PoA design, baseline, additionality, monitoring plans and emission reduction calculations, internal quality assurance systems of the CME as well as the PoA, review of the stakeholder comments and responses, closure of CARs, CLs and FARs during the validation exercise, review of sample documents.

The reviewer compiles clarification questions for the Team Leader and Validation Team and discusses these matters with Team Leader.

After the agreement of the responses on the 'Clarification Request' from the Team Leader as well as the PP(s) the finalized validation report is accepted for further processing such as uploading on the UNFCCC webpage.

3 VALIDATION CONCLUSIONS

In the following sections, the conclusions of the validation are stated.

The findings from the desk review of the original programme design documents and the findings from interviews during the follow up visit are described in the Validation Protocol in Appendix A.

The Clarification and Corrective Action Requests are stated, where applicable, in the following sections and are further documented in the Validation Protocol in Appendix A. The validation of the Project resulted in **6** Corrective Action Requests (CARs) and **15** Clarification Requests (CLs).

The CARs and CLs were closed based on adequate responses from the Project Participant(s) which meet the applicable requirements. They have been reassessed before their formal acceptance and closure.

The number between brackets at the end of each section correspond to the VVM paragraph

3.1 Approval

The letters of approval have been provided by CME and the following support documentation has been verified by Bureau Veritas Certification.

- ✎ The Designated National Authority (DNA) of Israel has issued a Letter of Approval dated 04/04/2012, authorizing Tricorona Carbon Asset Management Pte. Ltd. voluntary participating in the PoA of Enlightened Solar PoA as the coordinating/managing entity and confirms the contribution to Israel's Sustainable development./12/
- ✎ The Designated National Authority (DNA) of Sweden has issued a Letter of Approval dated 18/06/2012 authorizing Tricorona Carbon Asset Management Pte. Ltd. voluntary participating in the PoA of Enlightened Solar PoA./17/

Bureau Veritas Certification received the letter of approval from the CME and does not doubt the letter's authenticity.

The letter of approval does not contain a specific version of both the design documents and the



validation report.

The title and contents of the letter of approval refer to the precise proposed PoA title in the design documents being submitted for registration.

✎ Bureau Veritas Certification considers the letters of approval are in accordance with **Para. 45 - 48 /VVM** and **Para.10 of EB55 Annex38**.

3.2 Participation

The participation for the coordinating/managing entity has been approved by a Party of the Kyoto Protocol.

✎ Complying with **Para.54/VVM**, Bureau Veritas Certification hereby confirms that by referring to the information on UNFCCC website i.e.

<http://maindb.unfccc.int/public/country.pl?country=IL;>

<http://maindb.unfccc.int/public/country.pl?country=SE>

3.3 Design document

✎ Bureau Veritas Certification hereby confirms that the PoA design documents comply with the valid Small-Scale Programme of Activities Design Document Form(CDM SSC-PoA-DD) version01/Ref-4/ and Small-scale CDM Programme Activity Design Document Form(CDM-SSC-CPA-DD) version01/Ref-5/

3.4 PoA description

The geographical boundary of the PoA is Israel and the length of the PoA is 28 years.

A typical CPA under the PoA comprises one or more Solar PV power plants including newly built plants at Greenfield sites or capacity additions at existing facilities. The newly built plants or capacity addition should be up to 15 MW. The CPA to be included in the PoA will generate electricity and be connected to the grid.

This programme is purely a voluntary initiative undertaken by Tricorona Carbon Asset Management Pte. Ltd, which is the CME of this PoA. Enlightened Capital will be the CPA operator of each CPA under the PoA. The emission reductions purchase agreement(ERPA) signed between Tricorona Carbon Asset Management Pte. Ltd and Enlightened Capital has been validated by validation team. Enlightened Capital will have a contract with each plant owner, ensuring that the plant owners are aware of, and have agreed that their activity is being subscribed to the PoA. The contract template between the CPA operator and the plant owner has also been validated by the validation team./14/

There are no mandatory requirements in Israel enforcing the construction of solar PV power plants. /5/

The validation team hereby confirms that the programme description in PoA-DD Version03/3/ is accurate and complete in all respects.

3.5 Operational and management arrangements

A clear and transparent description of the operational and management arrangements have been established by the management/coordinating entity and stated in the PoA-DD. The CME has been interviewed by validation team. Document of PoA management system/6/ for Enlightened Solar PoA have been provided by the CME, which can satisfy the requirements of Para.17 of Standard for demonstration of additionality, development of eligibility criteria and



application of multiple methodologies for programme of activities(EB65 Annex03)/Ref-3/. Please refer to Section 6.4.5 of Table in Appendix A for details.

Complying with **para.166/VVM** and **EB65 Annex 3/Ref-3/**, Bureau Veritas Certification hereby concludes that the operational and management arrangements have been established by the coordinating/managing entity and are suitable for the PoA being validated. Bureau Veritas Certification considers that the arrangements are sufficient to ensure that the coordinating/managing entity will have control of all records and information related to the implementation of individual CPAs.

3.6 Eligibility criteria for inclusion a CPA in the PoA

Validation team has assessed the eligibility criteria for inclusion a CPA in the PoA in accordance with “Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities”/Ref-3/. The eligibility criteria a-h fulfills the requirement of Para.14(a-e,g,h,k,l) of EB65 Ann3 and other CDM requirement i.e. AMS-I.D Version17/Ref-6/, Guidelines on assessment of de-bundling for SSC Project activities(EB54 Annex13)/Ref-7/ and Glossary of CDM terms Version 06/Ref-11/. Please refer to Section 12 of Table 1 in Appendix A for details. And the eligibility criteria i-k are required by local regulation and management system of the PoA. Thus validation team is able to conclude that the below eligibility criteria are reasonable and sufficient for CPA inclusion.

a	The SSC-CPA should have its project site located in Israel and the electricity generated shall be supplied to the Israeli National Grid.
b	The SSC-CPA shall be uniquely identified and defined by way of the unique identifying numbers (serial numbers) and GPS coordinates attached to each Solar PV installation, to ensure that all CPAs under this PoA are neither registered as an individual CDM project activity nor included in another registered PoA.
c	The SSC-CPA shall generate electricity using solar photo-voltaic (PV) technology (including but not limited to thin film and crystalline technology).
d	The Panel purchase/EPC contract date, will be taken as the CPA start date. The CPA start date shall be after the PoA validation start date.
e	<p>The SSC-CPA shall comply with the applicability criteria of the methodology <i>AMS.I.D-Grid connected renewable electricity generation, version - 17.0</i>.</p> <p>The SSC-CPA shall:</p> <ul style="list-style-type: none"> • Install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity (Greenfield plant), OR • Involve a capacity addition. • Have installed capacity limits of: <ul style="list-style-type: none"> (a) for Greenfield projects: not more than 15 MW (b) for capacity addition projects: the added capacity of the units should be not more than 15 MW and should be physically distinct from the existing units <p>The CPA shall not include:</p> <ul style="list-style-type: none"> • Project activities that are a combined heat and power (co-generation) system • Projects that involve the retrofit of an existing plant(s) • Projects that involve the replacement of an existing plant(s) • Projects that involve the use of equipment that has been transferred from a different existing operational project (i.e. to avoid leakage)



f	The SSC-CPA should comply with the requirements stated in the generic CPA-DD for the following: <ul style="list-style-type: none"> • Stakeholder consultation • Environmental impact assessment
g	The SSC-CPA shall undergo a de-bundling check as follows: A proposed small-scale CPA of a PoA shall be deemed to be a de-bundled component of a large scale activity if there is already an activity which satisfies both conditions (a) and (b) below: <ol style="list-style-type: none"> 1. Has the same activity implementer as the proposed small scale CPA or has a coordinating managing entity, which also manages a large scale PoA of the same technology/measure, and; 2. The boundary is within 1 km of the boundary of the proposed small-scale CPA, at the closest point. However, if the total size of such a CPA combined with a registered small-scale CPA of a PoA does not exceed an installed capacity of 15MW, then the proposed SSC CPA is not considered to be a debundled component of a large-scale activity.
h	Conditions to provide an affirmation that funding from Annex I parties, if any, do not result in a diversion of official development assistance.
i	All the POs shall formally/legally own the land/ rooftops, on which the equipment is going to be installed, or rent the land/ rooftops from the legal owners.
j	The PO shall own a Solar Suspended License
k	Contractual provisions to ensure that those who own the power plants are aware of, and have agreed, that their activity is being subscribed to the PoA.
l	Each PO in the CPA should have a CO – PO contract with the CO, i.e. with Enlightened Capital (EC).

☞ Complying with **Para.14,15** and **16** of “Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities”/Ref-3/, Bureau Veritas Certification confirms that the eligibility criteria are verifiable and the eligibility criteria are sufficiently objective and comprehensive to permit the assessment of the inclusion of CPAs in the PoA.

☞ Complying with **Para.167/VVM**, Bureau Veritas Certification hereby confirms that the specified eligibility criteria in the PoA-DD are sufficient to ensure that all CPAs would comply with the CDM requirement applicable to the PoA, which includes the means of demonstrating the additionality of the CPA and the applicability of the applied methodology.

3.7 Baseline and monitoring methodology

3.7.1 Applicability of the selected baseline and monitoring methodology

By reviewing the relevant documentation and interviewing the CME and consultant, Bureau Veritas Certification can confirm that the CPAs to be included in the PoA will comply with the applicability conditions of AMS-I.D. Version17./Ref-6/ Please refer to Section 10.3.3 of Table 1 in Appendix A for details.

3.7.2 PoA boundary

Boundary for the PoA in terms of geographical area is defined as Israel.



Bureau Veritas Certification confirms that in establishing the boundary of the PoA, the project participants have taken into consideration all applicable national and/or sectoral policies and regulations within that chosen boundary./5/

The spatial extent of the project boundary of CPAs under the PoA includes the project power plants included in the CPA and all power plants connected physically to the electricity system that the CDM project power plant is connected to, which in this case is the Israeli national electricity grid.. It is consistent with the applied methodology AMS-I.D. Version17./Ref-6/

3.7.3 Baseline identification

According to methodologies AMS-I.D Version17/Ref-6/, the baseline scenario for CPAs to be included in the PoA is identified at PoA level properly as:

In the absence of the PoA, the electricity delivered to the grid by the CPAs included in the PoA would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid.

The baseline is to displace electricity from the grid and thus reduce Greenhouse Gas emissions associated with the combustion of fossil fuels for electricity generation and there are no national or sectoral policies (E+/E-) or circumstances affecting the baseline scenario./5/

☞ Complying with **Para. 87 and 88/VVM**, Bureau Veritas Certification hereby confirms that:

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

3.7.4 Algorithms and/or formulae used to determine emission reductions

The steps taken to assess the requirements outlined in **para.90-91/VVM** are described below:

As per baseline methodologies AMS-I.D. Version17/Ref-6/, the emission reductions ER_y during the crediting period is the difference between baseline emissions, project emissions and leakage. These are:

1. Baseline emissions

$$BE_y \text{ (tCO}_2\text{)} = EF_{\text{CO}_2, \text{grid}, y} \text{ (tCO}_2\text{/MWh)} * EG_{\text{BL}, y} \text{ (MWh)}$$

Where:

BE_y Baseline Emissions in year y (tCO₂)

$EG_{\text{BL}, y}$ Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)

$EF_{\text{CO}_2, \text{grid}, y}$ CO₂ emission factor of the grid in year y (tCO₂/MWh)



2. Project Emissions: the project emissions are regarded as zero as per methodology AMS-I.D Version17
3. Leakage: no leakage has to be considered as per the methodology for equipments transferred from another different existing operational power plant are not eligible for inclusion in this PoA
4. Emission reductions

$$ER_y = BE_y - PE_y - L_y = BE_y = EF_{CO_2, grid, y} \times EG_{BL, y}$$

According to the baseline methodology AMS-I.D Version17/Ref-6/ and Tool to calculate the emission factor for an electricity system version 02.2.1 (EB 63, Annex 19)/Ref-9/ (hereafter called "Tool-Grid EF"), the baseline emission factor was calculated as six steps. In addition, the calculation in the PoA-DD/3/ and grid emission factor calculation spreadsheet/15/ refers to the Grid emission factor 2006-2010 + build margin + average operating margin/8/ issued by Israel Electric Corporation(IEC) and Calculation figures for emission factor of Greenhouse gases from Israel Electric units issued by Israel Electric Corporation(IEC)/9/ dated 23/06/2011, which is the most recent information available at the time of PoA DD webhosted to global stakeholders for consultation. It is also confirmed by Israel's DNA via confirmation letter/16/for data of Israel's Greenhouse Gas inventory 2011.

Validation team has validated the grid emission factor calculation spreadsheet and confirms that the emission factor calculation is fully consistent with Tool to calculate the emission factor for an electricity system version 02.2.1/Ref-9/. The calculation of grid emission factor 2006-2010+build margin+average operating margin/8/ issued by Israel Electric Corporation(IEC) is not fully consistent with the Tool to calculate the emission factor for an electricity system. Thus the calculation result of grid emission factor is minor different from the official data, which has been validated by the validation team and considered correct and reasonable. Validation team can here confirm that the grid emission factor calculation of the PoA is correct.

Complying with para.92-93/VVM, based on the above assessment, Bureau Veritas Certification hereby confirms that:

- (a) All assumptions and data used by the project participants are listed in the PoA-DD, including their references and sources;
- (b) All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PoA-DD;
- (c) All values used in the PoA-DD are considered reasonable in the context of the proposed CDM project activity;
- (d) The baseline methodology has been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions;
- (e) All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PoA-DD.

3.8 Start date of CPAs to be included

The CPA start date was defined as "the Panel purchase/EPC contract date" which is considered reasonable for solar PV projects in Israel. It is the earliest date at which the implementation or construction or real action of the Project began. This is in accordance with the latest CDM glossary version 06/Ref-11/. The CPA start date shall be after the PoA validation start date, which has also been included in the eligibility criteria.



3.9 Demonstration of additionality of the PoA as a whole

The CPAs to be included in the PoA will apply solar photovoltaic electricity generation included in solar technologies with installed capacity up to 15M. Thus the CPAs under the PoA are automatically defined as additional according to Para.2 of Guidelines On The Demonstration of Additionality of Small-Scale Project Activities Version 9.0(EB68 Ann27) /Ref-10/. Therefore, no eligibility criteria for additionality for CPA inclusion is required.

3.10 Monitoring plan

The CME has opted for verification method of each CPA by DOE. Monitoring plan for each CPA will be developed according to the applied baseline and monitoring methodology. The transparent system will be developed for monitoring, data collection and storage at PoA level.

Bureau Veritas Certification hereby confirms that the monitoring plan complies with the requirements of the methodologies.

The steps taken to assess whether the monitoring arrangements described in the monitoring plan are feasible within the project design are described below.

The CPAs included in the PoA use the approved consolidated monitoring methodology AMS-I.D. version 17 for grid connected electricity generation from renewable sources.

Applicability of this methodology is justified in PoA-DD as it involves grid connected renewable power generation using wind energy. Refer discussions on the validity of the methodology at Section 3.7.1 above. Validation team hereby confirms that the monitoring plan complies with the requirements of the methodology.

The ex-ante combined margin emission factor is determined based on the most recent information available. According to the monitoring plan, net quantity of electricity supplied to the grid ($EG_{BL,y}$) will be measured by electricity meter(s). For capacity addition projects, separate meter(s) for the additional capacity will be used to directly monitor net electricity generated by the added capacity. Meters will be calibrated at appropriate intervals according to national standards. Measurement results shall be cross checked with records for sold/purchased electricity.

All the records will be kept electronically during the crediting period plus 2 years. Validation team is of the opinion that the monitoring plan complies with the requirements of the methodologies.

Operational management for the project activity is comprehensively detailed in PoA-DD and it includes description of the responsibility, procedure reference, calibration frequency, maintenance needs, QA/QC procedure and data management system.

The steps taken to assess whether the monitoring arrangements described in the monitoring plan are feasible within the program design.

3.11 Environmental impacts

The CME will undertake an analysis of environmental impacts at CPA level.

No separate environmental impact assessment (EIA) for small scale solar PV projects (CPAs) are required in Israel. /7/ And the analysis of environmental impacts at CPA level will comply with the suspended license issued by Israel's government.

3.12 Local stakeholder consultation

The CME will undertake the local stakeholder consultation at CPA level.



4 COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS

The PoA-DD using methodologies AMS-I.D. ver.17 was webhosted on the UNFCCC for global stakeholders comments as per CDM requirements. The programme was webhosted from 22/022012 to 22/03/2012.

No comments were received.



5 VALIDATION OPINION

Bureau Veritas Certification has performed a validation of the Enlightened Solar PoA in Israel. The validation was performed on the basis of UNFCCC criteria and host country criteria and also on the criteria given to provide for consistent project operations, monitoring and reporting.

The validation consisted of the following three phases: i) a desk review of the design and the baseline and monitoring plan; ii) follow-up interviews with CME; iii) the resolution of outstanding issues and the issuance of the final validation report and opinion.

By reviewing VVM, Procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission reductions for a programme of activities, Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities etc, Bureau Veritas Certification is of the opinion that management system of CME is robust and efficient to ensure eligibility and quality of CPAs. Eligibility criteria are sufficient so that the inclusion of CPAs could fulfill all requirements of EB rules. Emission reductions attributable to the CPA under the PoA are additional to any that would occur in the absence of the PoA, and hence are likely to be achieved.

The review of the PoA-DD (3.0) and the subsequent follow-up interviews have provided Bureau Veritas Certification with sufficient evidence to determine the fulfillment of stated criteria. In our opinion, the PoA correctly applies and meets the relevant UNFCCC requirements for the CDM and the relevant host country criteria. Bureau Veritas Certification concludes Enlightened Solar PoA meets all stated criteria and thus requests registration of Enlightened Solar PoA as PoA.



6 REFERENCES

Category 1 Documents:

Documents provided by Enlightened Capital that relate directly to the GHG components of the PoA.

- /1/ PoA DD Version 1.0 dated 10/02/2012 for GSC
- /2/ Generic CPA DD Version 1.0 dated 10/02/2012 for GSC
- /3/ PoA DD Version 3.0 dated 25/07/2012
- /4/ Generic CPA DD Version 3.0 dated 25/07/2012
- /5/ Climate Change Policy in Israel issued by DNA of Israel in Nov. 2011
http://old.sviva.gov.il/bin/en.jsp?enPage=e_BlankPage&enDisplay=view&enDispWhat=Zone&enDispWho=climate_change&enZone=climate_change
- /6/ Document of PoA management system for Enlightened Solar PoA(SD*-10)
- /7/ EIA regulation for Plans in Israel(SD-11)
http://old.sviva.gov.il/bin/en.jsp?enPage=e_BlankPage&enDisplay=view&enDispWhat=Object&enDispWho=Articals\13969&enZone=eia
- /8/ Grid emission factor 2006-2010+build margin+average operating margin issued by Israel Electric Corporation(IEC)(SD-12)
- /9/ Calculation figures for emission factor of Greenhouse gases from Israel Electric units issued by Israel Electric Corporation(IEC) dated 23/06/2011(SD-13)
- /10/ Consultation agreement signed between Enlightened Capital and Biosphere Capital(SD-17)
- /11/ Emission reductions Purchase Agreement(ERPA) signed between Enlightened Capital and Tricorona Carbon Asset Management Pte Ltd.(SD-19)
- /12/ Letter of Approval(LoA) for "Enlightened Solar PoA" dated 04/04/2012 issued by DNA of Israel(SD-20)
- /13/ Modalities of Communication Form(MoC) dated 13/12/2011 signed by Tricorona Carbon Asset Management Pte Ltd.(SD-28)
- /14/ The contract template between the CPA operator and the plant owner(SD-29)
- /15/ Grid emission factor calculation spreadsheet(SD-30)
- /16/ Confirmation letter for data of Israel's Greenhouse Gas inventory 2011(SD-32)
- /17/ Letter of Approval concerning Enlightened Solar PoA and Tricorona Carbon Asset Management Pte. Ltd. dated 18/06/2012 issued by DNA of Sweden(SD-33)

Category 2 Documents:

Background documents related to the design and/or methodologies employed in the design or other reference documents.

- Ref-1 VVM Version 01.2 dated 30/07/2010(EB55 Annex02)
- Ref-2 Procedures for registration of a programme of activities as a single CDM project activity and issuance of certified emission reductions for a programme of activities dated 02/08/2010(EB55 Annex38)
- Ref-3 Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities(EB65 Annex03)
- Ref-4 CDM-SSC-PoA-DD form(EB33 Annex43)
- Ref-5 CDM-SSC-CPA-DD form(EB33 Annex44)
- Ref-6 AMS-I.D Version 17
- Ref-7 Guidelines on assessment of de-bundling for SSC Project activities(EB54 Annex13)

* "SD" means supported documents. "SD-10" is the number of the supported documents. It is consistent with the description in the DDs.



- Ref-8 General Guidelines to SSC CDM methodologies(EB66 Annex23)
Ref-9 Tool to calculate the emission factor for an electricity system version 02.2.1 (EB 63, Annex 19) dated 29/09/2011
Ref-10 Guidelines On the Demonstration of Additionalty of Small-Scale Project Activities Version 9.0(EB68 Ann27)
Ref-11 Glossary of CDM terms Version 06

Persons interviewed:

List persons interviewed during the validation or persons that contributed with other information that are not included in the documents listed above.

- /1/ Tatiana Boldyreva, Senior project manager of TRICORONA(CME)
- /2/ Lior Shmueli, DNA coordinator of Ecofinance
- /3/ Naor Danieli, Business manager of Enlightened Capital(CPA operator)
- /4/ David Danieli, CEO of Enlightened Capital
- /5/ Angus Mcewin, CDM director of Biosphere Capital(consultant)
- /6/ Laci Ples, Project manager of Biosphere Capital

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7 CURRICULA VITAE OF THE DOE'S VALIDATION TEAM MEMBERS

Mr. Tim WANG Wei	Bureau Veritas Certification, China	<p>Team Leader, Climate Change Lead Verifier.</p> <p>He holds a Master Degree in Environmental Science. Before joining BV in Feb.2009, he gained 4 and a half years of working experience in engineering and EIA for manufacturing enterprise in P.R. China. He obtained the certificates of CDM Lead Verifier and ISO14001 Lead Auditor in Bureau Veritas and received training in ISO 14064.</p>
Mr.Lucas DOU Yonghua	Bureau Veritas Certification, China	<p>Team Member, Climate Change Verifier</p> <p>He holds a Master Degree in Materials Science. Before joining BV in 2009, he gained two and a half years CDM technical working experience in P.R. China. He obtained the certificate of CDM Lead Verifier and Lead Auditor for ISO 14001 and has successfully completed the course assessment for ISO 14064:2006.</p>
Ms.ZHANG Chen	Bureau Veritas Certification, China	<p>Team Member, Climate Change Verifier</p> <p>She holds Master Degree in Environmental Economics and Environmental Engineering. Before joining BV in 2010, she has gained experiences in project financing evaluation, policy cost-benefit analysis and environmental management. She obtained the certificate of CDM Verifier and ISO 14001 Lead Auditor, and received training in ISO 14064.</p>
Mrs. Ernesto TAN Wenbin	Bureau Veritas Certification, China	<p>Team Member, Climate Change Verifier</p> <p>He holds a bachelor degree in Geology and a master degree in Structural Geology. Before joining BV, he gained more than 2 years' technical experience in Petroleum Exploitation and Storage & Transportation sector, and more than 3 year's technical experiences in coal mining sector in P.R China. He obtained the certificate of CDM Lead Verifier and Lead Auditor for ISO 14001.</p>

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VALIDATION REPORT

APPENDIX A: COMPANY CDM PROGRAMME VALIDATION PROTOCOL

Table 1 Validation requirements of PoA

CHECKLIST QUESTION	Ref.	§	COMMENTS		Draft Concl	Final Concl
1. Global Stakeholder Consultation						
1.1. Is there any comment on the SSC-PoA-DD of the proposed project activity received during Global Stakeholder Consultation process?	VVM	43	No.		OK	OK
1.2. If yes, have all comments been taken into account during the validation of the proposed project activity?	VVM	43	N.A.		OK	OK
1.3. If comments indicate that the proposed project activity does not comply with the CDM requirements and are not substantiated, is there any further clarification from the entity providing the comment?	VVM	42	N.A.		OK	OK
1.3.1. If yes, how comments received have been taken due account?	VVM	42	N.A.		OK	OK
1.3.2. If no, are the comments as originally provided proceeded to assess?	VVM	42	N.A		OK	OK
2. Approval						
2.1. Have the letters of approval obtained from each host Party and Annex I Party which wishes to be involved	VVM EB55	45	CAR-1 LoA from DNA of Israel	CAR-2 LoA from DNA of	CAR-1	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
in the PoA?	Ann38	9	has not been provided. CAR-1 was closed out after letter of approval(LoA) issued by Israel's DNA was provided by CME and validated by validation team.	CAR-2 CAR-2 was closed out after letter of approval(LoA) issued by Sweden's DNA was provided and validated.	
2.2. Are letters of approval issued in accordance with the guidance provided by the Board (EB 16 report, Annex 6)? - The Party is a Party of the Kyoto Protocol - The participation is voluntary - In the case of the host Party, the proposed CDM programme contributes to the sustainable development of the country - Refers to the precise proposed CDM project activity title in the SSC-PoA-DD being submitted for registration	VVM EB55 Ann38 EB16 Ann6	45 9 1	Pending on CAR-1 Yes. - Israel has ratified the Kyoto Protocol - Israel participates voluntarily in CDM - The Project contributes towards realization of Israel's sustainable development goals - Refers to Enlightened Solar PoA	Pending on CAR-2 Yes. - Sweden has ratified the Kyoto Protocol - The participation is voluntary. - Refers to Enlightened Solar PoA Pending	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS		Draft Concl	Final Concl
2.3. Is(are) the letter(s) of approval unconditional with respect to (b) above?	VVM	46	Pending on CAR-1 Yes. It is unconditional.	Pending on CAR-2 Yes. It is unconditional.	Pending	OK
2.4. Has(ve) the letter(s) of approval been issued by the respective Party's designated national authority (DNA) and is valid for the CDM project activity under validation?	VVM	47	Pending on CAR-1 Yes. It was issued by Israel's DNA.	Pending on CAR-2 Yes. It was issued by Sweden's DNA.	Pending	OK
2.5. Is there doubt with respect to the authenticity of the letter of approval?	VVM	48	Pending on CAR-1 No.	Pending on CAR-2 No.	Pending	OK
2.6. If yes, was verified with the DNA that the letter of approval is authentic?	VVM	48	Pending on CAR-1 N.A.	Pending on CAR-2 N.A.	Pending	OK
3. Authorization						
3.1. Is CDM project participation recorded only at the PoA level while the operators of individual CPAs are not considered as project participants?	EB55 Ann38	8	Yes. CDM project participant is only recorded at the PoA level while the operators of individual CPAs are not considered as project participants.		OK	OK
3.2. Has the coordinating/managing entity obtained letters of authorization of its coordination of the PoA	EB55 Ann38	10	Pending on CAR-1 & CAR-2 Yes.		Pending	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
from each host Party?					
3.3. Has the approval of participation issued from the relevant DNA?	VVM	53	Pending on CAR-1 & CAR-2 Yes.	Pending	OK
3.4. Is there doubt with respect to (g) above?	VVM	53	Pending on CAR-1 & CAR-2 No.	Pending	OK
3.5. If yes, was verified with the DNA that the approval of participation is valid for the proposed project participant?	VVM	53	Pending on CAR-1 & CAR-2 N.A.	Pending	OK
4. Modalities of Communications (MoC)					
4.1. Is the CME the sole or a joint focal point for each scope of authority?	EB55 Ann38	11	CAR-3 MoC has not been provided. CAR-3 was closed out after the MoC signed by Tricorona Carbon Asset Management Pte Ltd was provided by the CME and validated by validation team. The CME is the sole focal point.	CAR-3	OK
4.2. Is the number of joint focal points limited to five, or equal to the number of host parties if greater than five?	EB55 Ann38	11	Pending on CAR-3 N.A.	Pending	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
5. PoA design					
5.1. Is the SSC-PoA-DD completed using valid version of the CDM SSC-PoA-DD form appropriate to the type of project activity?	VVM	55	Yes, Programme of Activities Design Document Form (CDM-SSC-PoA-DD) version 01 (EB33 Ann 43) was used.	OK	OK
6. General description of PoA (corresponding to section A of CDM SSC-PoA-DD s)					
6.1. In Section A.1 of CDM-SSC-PoA-DD, is a title for the PoA provided?	EB33	Ann43	Yes. Enlightened Solar PoA	OK	OK
6.2. Description of programme of activities(Section A.2 of CDM-SSC-PoA-DD)	EB33	Ann43			
6.2.1. Is a framework developed for the implementation of the proposed CDM PoA and inclusion of CPAs under the PoA?	EB33 EB55 Ann38	Ann43 6	Coordinating Managing Entity (CME) and CER Buyer – <i>Tricorona Carbon Assessment Management Pte Ltd</i> ; CDM Consultant - <i>Biosphere Capital Pte Ltd</i> ; CDM programme activity (CPA) operators and Solar PV power plant owners. CL-1 The relationship among the CME, CPA operator(s) and CPA owner has not been	CL-1	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			<p>provided in the Section A.2 of PoA-DD.</p> <p>CL-1 was closed out after the relationship among the CME, CPA operator(s) and CPA owner was clarified and the ERPA between CPA operator and CME and proposed template of contract between CPA operator and plant owners have been provided and validated.</p> <p>The CPA operator under the PoA is Enlightened Capital, who will have a contract with the plant owners involved in each CPA.</p>		
6.2.2. Is Policy/measure or stated goal that the proposed PoA provided?	EB33 EB55 Ann38	Ann43 6(c)	<p>Yes.</p> <p>The stated goal of the PoA is to develop a platform which will assist the development of small-scale grid connected solar PV power plants in Israel (either on-ground or roof top or both), thereby displacing carbon-intensive electricity from the grid and reducing associated Greenhouse Gas (GHG) emissions.</p>	OK	OK
6.2.3. Is it confirmed that the proposed PoA is a voluntary action by the coordinating/managing entity?	EB33 EB55 Ann38	Ann43 6(d)	<p>Yes.</p> <p>The proposed PoA is a voluntary action by the CME.</p>	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
6.3. Coordinating/managing entity and participants of PoA(Section A.3 of CDM-SSC-PoA-DD)	EB33	Ann43			
6.3.1. Coordinating or managing entity	EB33 EB55 Ann38	Ann43 6(a)	Yes. Tricorona Carbon Asset Management Pte. Ltd.	OK	OK
6.3.2. Host Party(ies)	EB33 EB55 Ann38	Ann43 6(a)	Yes. Israel	OK	OK
6.3.3. PoA participants	EB33 EB55 Ann38	Ann43 6(a)	Yes. Tricorona Carbon Asset Management Pte. Ltd. acts as the buyer.	OK	OK
6.4. Technical description of the programme of activities(Section A.4 of CDM-SSC-PoA-DD)	EB33	Ann43			
6.4.1. In Section A.4.1 of CDM-SSC-PoA-DD, is location of the programme of activities defined?	EB33	Ann43	Yes.	OK	OK
6.4.1.1. Host Party(ies)	EB33	Ann43	Yes. Israel.	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
6.4.1.2. Definition of the boundary for the PoA in terms of a geographical area(e.g., municipality, region within a country, country or several countries) within which all CPAs included in the PoA will be implemented, taking into consideration the requirement that all applicable national and/or sectoral policies and regulations of each host country within that chosen boundary.	EB33 EB55 Ann38	Ann43 6(b)	Yes. Israel.	OK	OK
6.4.2. In Section A.4.2.1 of CDM-SSC-PoA-DD, is(are) technology or measures to be employed by the CPA provided?	EB33 EB55 Ann38	Ann43 6(f)	<p>A typical CPA under the current PoA comprises one or more newly-built Solar PV power plants with a maximum installed capacity up to 15 MW, including capacity expansions at existing facilities.</p> <p>CL-2</p> <p>Clarification is required on what the technical specifications are based on including performance ratio, yearly operational hours. Plant load factor, inverter, equipment lifetime and so on.</p> <p>CL-2 was closed out after the Table 2 was deleted from the PoA-DD and the specific information was not included at PoA level.</p>	CL-2	OK
6.4.3. In Section A.4.2.2 of CDM-SSC-PoA-DD, is eligibility criteria for inclusion of a CPA in the PoA	EB33 EB55	Ann43	<p>Yes.</p> <p>The eligibility criteria has been provided in</p>	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
provided?	Ann38	6(g)	Section A.4.2.2 of CDM-SSC-PoA-DD.		
6.4.4. In Section A.4.3 of CDM-SSC-PoA-DD, is additionality assessed and demonstrated as following?	EB33	Ann43			
6.4.4.1. Is the proposed PoA a voluntary coordinated action?	EB33 EB55 Ann38	Ann43 6(e)	Yes.	OK	OK
6.4.4.2. If the PoA is implementing a voluntary coordinated action, would it be implemented in the absence of the PoA?	EB33 EB55 Ann38	Ann43 6(e)	<p>CL-3</p> <p>Clarification is required on whether it would be implemented in the absence of the PoA in Section A.4.3 of the PoA-DD.</p> <p>CL-3 was closed out after it was clarified that The PoA is a voluntary coordinated action that would not be implemented in the absence of the PoA.</p>	CL-3	OK
6.4.4.3. If the PoA is implementing a mandatory policy/regulation, is this enforced?	EB33 EB55 Ann38	Ann43 6(e)	<p>CL-4</p> <p>Clarification is required on whether a mandatory policy/regulation is implemented. If the PoA is implementing a mandatory policy/regulation, clarification is required on whether it is enforced.</p> <p>CL-4 was closed out after validation team</p>	CL-4	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			was able to conclude that no regulations mandating the development of solar plants are available in Israel		
6.4.4.4. If mandatory a policy/regulation is enforced, will the PoA lead to a greater level of enforcement of the existing mandatory?	EB33 EB55 Ann38	Ann43 6(e)	Pending on CL-4 N.A.	Pending	OK
6.4.5. In Section A.4.4.1 of CDM-SSC-PoA-DD, is the following description of the operational and management arrangement established by the coordinating/managing entity for the implementation of the PoA included?	EB33	Ann43			
6.4.5.1. A record keeping system for each CPA under the PoA	EB33	Ann43	Yes. A database (hereafter referred to as "Enlightened Solar" database) will be set up and will include the following information for each solar PV installation in a SSC-CPA	OK	OK
6.4.5.2. A system/procedure to avoid double accounting e.g. to avoid the case of including a new CPA that has been already registered either as a CDM project or as a CPA of another PoA	EB33 EB65 Ann3	Ann43 17	CL-5 Clarification is required on how to avoid double counting from other registered CDM projects or CPAs included under other registered PoA in A.4.4.1 of PoA DD.	CL-5	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			<p>CL-5 was closed out after validation team was able to conclude that a system/procedure to avoid double accounting was available for the PoA.</p> <p>Each proposed new power plant to be included in the PoA will be cross-checked against the Enlightened Solar Database and also against the database of CDM projects and PoA's on the UNFCCC website. The unique Suspended License number issued by the Israel Electricity Authority and/or the location (geographical coordinates) of each power plant will enable accurate identification of each new project</p>		
6.4.5.3. The SSC-CPA included in the PoA is not a de-bundled component of another CDM programme activity (CPA) or CDM project activity	EB33 EB65 Ann3	Ann43 17	<p>EB54 Annex13 will be adopted to demonstrate that the SSC-CPA included in the PoA is not a de-bundled component.</p> <p>CAR-4</p> <p>The title of EB54 Annex13 in Section A.4.4.1 of PoA DD is not consistent with the relevant document published by CDM EB.</p> <p>CAR-4 was closed out after the title of EB54 Ann13 was correctly updated as "Guidelines on assessment of debundling for SSC Project Activities"..</p>	CAR-4	OK

VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
6.4.5.4. The provisions to ensure that those operating the CPA are aware of and have agreed that their activity is being subscribed to the PoA	EB33	Ann43	<p>Contracts between the CPA operator and the owners of the solar PV installation will be signed confirming that the owners are aware and have agreed that their activity is being subscribed to the PoA.</p> <p>Pending on CL-1</p> <p>The proposed template of contract between the CPA operator and plant owners and the ERPA signed between the CPA operator and CME have been provided by the CPA operator and validated by validation team.</p>	Pending	OK
6.4.5.5. A clear definition of roles and responsibilities of personnel involved in the process of inclusion of CPAs, including a review of their competencies	EB65 Ann3	17	<p>Yes.</p> <p>Enlightened Solar PoA Management System compiled by TRICORONA and Biosphere Capital has been provided and validated during the onsite visit. A clear definition of roles and responsibilities of personnel involved in the process of inclusion of CPAs have been included in the PoA DD.</p>	OK	OK
6.4.5.6. Records of arrangements for training and capacity development for personnel	EB65 Ann3	17	<p>Yes.</p> <p>Validation team has validated the Document of PoA management system for Enlightened Solar PoA and is able to conclude that:</p>	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			Records of arrangements for training and capacity development for personnel have been included in Enlightened Solar PoA Management System.		
6.4.5.7. Procedures for technical review of inclusion of CPAs	EB65 Ann3	17	Yes. Procedures for technical review of inclusion of CPAs have been included in Enlightened Solar PoA Management System	OK	OK
6.4.5.8. Records and documentation control process for each CPA under the PoA	EB65 Ann3	17	Yes. Records and documentation control process for each CPA under the PoA have been included in Enlightened Solar PoA Management System	OK	OK
6.4.5.9. Measures for continuous improvements of the PoA management system	EB65 Ann3	17	Yes. Measures for continuous improvements of the PoA management system have been included in Enlightened Solar PoA Management System	OK	OK
6.4.5.10. Any other relevant elements	EB65 Ann3	17	Yes. The quality assurance has been included.	OK	OK
6.4.6. In Section A.4.4.2 of CDM-SSC-PoA-DD, is the	EB33	Ann43			



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
following information regarding monitoring plan provided?					
6.4.6.1. Description of the proposed statistically sound sampling method/procedure to be used by DOEs for verification of the amount of reductions of anthropogenic emissions by sources or removals by sinks of greenhouse gases achieved by CPAs under the PoA	EB33 EB55 Ann38	Ann43 6(k)	N.A. as sampling method is not used.	OK	OK
6.4.6.2. In case the coordinating/managing entity opts for a verification method that does not use sampling but verifies each CPA(whether in groups or not, with different or identical verification periods), a transparent system is to be defined and described that ensures that no double accounting occurs and that the status of verification can be determined anytime for each CPA	EB33 EB55 Ann38	Ann43 6(k)	<p>CL-6</p> <p>Section A.4.4.2 of PoA-DD is silent about whether the status of verification can be determined any time for each CPA.</p> <p>CL-6 was closed out after It was indicated in Section A.4.4.2 of PoA-DD that the status of verification can be determined anytime for each CPA.</p>	CL-6	OK
6.4.7. In Section A.5 is information regarding public funding of the programme activities provided?	EB33 EB55 Ann38	Ann43 6(n)	No public funding available for Enlightened Solar PoA.	OK	OK
7. Duration of the programme of activities(Section B of	EB33	Ann43			



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
CDM-SSC-PoA-DD)					
7.1. In Section B.1 of CDM-SSC-PoA-DD, is starting date of the PoA defined?	EB33	Ann43	Yes. 01/01/2013 (starting date of crediting period) 01/10/2012(starting date of 1 st CPA)	OK	OK
7.2. In Section B.2 of CDM-SSC-PoA-DD, is length of the PoA defined with a maximum total length of 28 years?	EB33 EB55 Ann38	Ann43 6(h)	Yes.	OK	OK
8. Environmental Analysis(Section C of CDM-SSC-PoA-DD)	EB33	Ann43			
8.1. In Section C.1 of CDM-SSC-PoA-DD, is environmental analysis conducted at PoA level or CPA level?	EB33 EB55 Ann38	Ann43 6(l)	CPA level	OK	OK
8.2. If environmental analysis is conducted at PoA level, is the documentation on the analysis of the environmental impacts, including transboundary impacts provided in Section C.2 of CDM-SSC-PoA-DD	EB33	Ann43	CL-7 In Section C.1 of PoA DD, CPA level has been chosen for the environmental analysis. Thus clarification is required on why documentation on the analysis of environmental analysis was also provided in Section C.2.	CL-7	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			CL-7 was closed out after it was confirmed in Section C.1 and C.2 of PoA DD that the environmental analysis will be conducted at CPA level.		
8.3. In Section C.3 of CDM-SSC-PoA-DD, is it stated that whether in accordance with the host Party laws/regulations, an environmental impact assessment is required for a typical CPA included in the PoA?	EB33	Ann43	Yes. Environmental Impact Assessments for small scale solar PV projects (CPAs) are not required in Israel.	OK	OK
9. Stakeholders' comments(Section D of CDM-SSC-PoA-DD)					
9.1. In Section D.1 of CDM-SSC-PoA-DD, is the local stakeholder consultation process done at PoA level or CPA level?	EB33 EB55 Ann38	Ann43 6(m)	CPA level	OK	OK
9.2. If local stakeholders comments were invited at the PoA level,					
9.2.1. In Section D.2 of CDM-SSC-PoA-DD, how these comments were invited and compiled?	EB33 EB55 Ann38	Ann43 6(m)	N.A.	OK	OK
9.2.2. In Section D.3 of CDM-SSC-PoA-DD, is the	EB33	Ann43	N.A.	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
summary of the comments received provided?	EB55 Ann38	6(m)			
9.2.3. In Section D.4 of CDM-SSC-PoA-DD, how due account was taken of all comments received?	EB33 EB55 Ann38	Ann43 6(m)	N.A.	OK	OK
10. Application of a baseline and monitoring methodology (Section E of CDM-SSC-PoA-DD)					
10.1. In Section E.1 of CDM-SSC-PoA-DD, are title and reference of the approved methodology (including any other methodologies or tools) applied to each CPA included in the PoA provided?	EB33	Ann43	AMS I.D. Grid connected renewable energy generation Version17. CAR-5 The meeting number of the methodology is not correct in Section E.1 of PoA DD. CAR-5 was closed out after the meeting number of AMS-I.D. version 17 has been updated to 61 st .	CAR-5	OK
10.2. Justification of the choice of the methodology and why it is applicable to each CPA (E.2 of CDM-SSC-PoA-DD)					
10.3. Is choice of an approved baseline and monitoring methodology (or combination of approved	EB33	Ann43	Yes.	OK	OK



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CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
methodologies) justified?	EB55 Ann38	6(f)			
10.3.1. For PoAs applying large scale CDM methodologies or combination of multiple large scale and small-scale CDM methodologies in a PoA, are combinations explicitly permitted in the methodologies?	EB65 Ann3	32&33	N.A.	OK	OK
10.3.2. If not, has a clarification for the eligibility of the proposed combination sought by following the latest version of the "Procedure for the submission and consideration of queries regarding the application of approved methodologies and methodological tools by designated operational entities to the Meth Panel" ?	EB65 Ann3	32&33	N.A.	OK	OK
10.3.3. Is each of the applicability conditions of the approved methodology or other methodology component referred to therein met?	EB33 EB55 Ann38	Ann43 6(f)			
10.3.3.1. Does this methodology comprise renewable energy generation units? Such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass	AMS I.D Ver.17	1	Yes. Solar photovoltaic.	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
10.3.3.2. Is one of respective situations applied? Project supplies electricity to a national/regional grid <ul style="list-style-type: none"> Project supplies electricity to an identified consumer facility via national/regional grid (through a contractual arrangement such as wheeling) 	AMS I.D Ver.17	2	Yes. CPAs under the PoA will supply electricity to the national grid.	OK	OK
10.3.3.3. This methodology is applicable to project activities that: (a) Install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity (Greenfield plant); (b) Involve a capacity addition;3 (c) Involve a retrofit4 of (an) existing plant(s); or (d) Involve a replacement5 of (an) existing plant(s)	AMS I.D Ver.17	3	Yes. (a) or (b) is chosen. The CPA to be included in the PoA will be a new Solar PV power plant at a site where there are no renewable energy power plants operating prior to the implementation of the project activity (Greenfield plant) or a capacity addition	OK	OK
10.3.3.4. Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology: <ul style="list-style-type: none"> The project activity is implemented in an existing reservoir with no change in the volume of reservoir; The project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density of the project activity, as per definitions given in the project emissions section, is 	AMS I.D Ver.17	4	N.A.	OK	OK



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CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
greater than 4 W/m ² ; <ul style="list-style-type: none"> The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m². 					
10.3.3.5. If the new unit has both renewable and non-renewable components (e.g. a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW.	AMS I.D Ver.17	5	N.A.	OK	OK
10.3.3.6. Combined heat and power (co-generation) systems are not eligible under this category	AMS I.D Ver.17	6	N.A.	OK	OK
10.3.3.7. In the case of project activities that involve the addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct from the existing units.	AMS I.D Ver.17	7	Yes.	OK	OK
10.3.3.8. In the case of retrofit or replacement, to qualify as a small-scale project, the total output of	AMS I.D	8	N.A.	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
the retrofitted or replacement unit shall not exceed the limit of 15 MW	Ver.17				
10.4. Description of the sources and gases included in the CPA boundary(Section E.3 of CDM-SSC-PoA-DD)	EB33	Ann43			
10.4.1. Is the boundary of the PoA including the physical delineation of the project activity defined?	VVM	79	Yes.	OK	OK
10.4.2. Are sources and GHGs included in CPA boundary in accordance with the selected methodology(ies)?	EB33 VVM	Ann43 79	Yes.	OK	OK
10.4.3. In cases where the selected methodology(ies) allows project participants to choose whether a source or gas is to be included in the project or CPA boundary, is the choice explained and justified?	VVM	79	N.A. as the applied methodology has no alternative for the choice.	OK	OK
10.5. Description of how the baseline scenario is identified and description of the identified baseline scenario(Section E.4 of CDM-SSC-PoA-DD)	EB33	Ann43			
10.5.1. Is description of how the baseline scenario is identified provided?	EB33	Ann43	Yes.	OK	OK
10.5.2. Does the selected methodology require use of tools (such as the "Tool for the demonstration and	VVM	82	No.	OK	OK



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CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
assessment of additionality" or the "Combined tool to identify the baseline scenario and demonstrate additionality") to establish the baseline scenario?					
10.5.3. Do the project participants take into account national and/or sectoral policies and circumstances?	VVM	85	Yes.	OK	OK
10.5.4. Is the description of the identified baseline scenario provided and consistent with the applied methodology?	EB33 VVM	Ann43 86	<p>CL-8</p> <p>The description of the identified baseline scenario in Section E.4 of PoA-DD is not fully consistent with the applied methodology AMS I.D. Version17.</p> <p>CL-8 was closed out after the baseline scenario was correctly identified and in accordance with the applied methodology.</p> <p>The baseline scenario is that the 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 into the grid.</p>	CL-8	OK
10.6. Assessment and demonstration of additionality for a typical CPA(Section E.5 of CDM-SSC-PoA-DD)	EB33	Ann43			



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
10.6.1. In Section E.5.1 of CDM-SSC-PoA-DD, have the PPs demonstrated additionality of a typical CPA using the procedure provided in the baseline and monitoring methodology applied?	EB33	Ann43	Yes. The solar technology of photovoltaic electricity generation will be adopted for CPAs under the PoA and the installed capacity of each CPA will be up to 15MW. According to Para.2 of Guidelines On The Demonstration of Additionality of Small-Scale Project Activities Version 9.0(EB68 Ann27), the CPAs under the PoA can be automatically defined as additional as PoA level.	OK	OK
10.7. In Section E.5.2 of CDM-SSC-PoA-DD, have the PPs provided the key criteria for assessing additionality of a CPA when proposed to be included in the registered PoA?	EB33	Ann43			
10.7.1. Have the PPs justified the choice of criteria based on the analysis in Section E.5.1 of CDM-SSC-PoA-DD?	EB33	Ann43	N.A as the additionality has been demonstrated as PoA level and no criteria is needed	OK	OK
10.7.2. Is it demonstrated how these criteria would be applied to the additionality of a typical CPA at the time of inclusion.	EB33	Ann43	N.A as the additionality has been demonstrated as PoA level and no criteria is needed	OK	OK
10.8. Are the eligibility criteria for inclusion of a CPA in the PoA in accordance with the "Standard for	EB65	Ann3			



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programme of activities?					
10.8.1. Is eligibility criteria derived from all the relevant requirements contained in the additionality section of the large scale methodologies included?	EB65 Ann3	10	N.A.	OK	OK
10.8.2. Has the CME demonstrated that compliance with the additionality-related eligibility criteria set in the PoA design document will ensure that all the relevant additionality-related guidelines, tools or any requirements embedded in the methodologies are met?	EB65 Ann3	11	Yes.	OK	OK
10.8.3. For PoAs involving combinations of technologies/ measures and/ or methodologies, are the eligibility criteria relative to each of them proposed to demonstrate additionality.	EB65 Ann3	12	N.A.	OK	OK
10.9. Estimation of Emission reductions of a CPA (Section E.6 of CDM-SSC-PoA-DD)					
10.9.1. In Section E.6.1 of CDM-SSC-PoA-DD, are methodological choices provided in the approved baseline and monitoring methodology applied, selected for a typical CPA explained and justified?	EB33 VVM	Ann43 90	CL-9 Section E.6.1 of PoA-DD is silent about the baseline for the option of capacity addition. And clarification is required on the whether the addition of new capacity will significantly	CL-9	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			<p>affect the electricity generated by existing plant(s) or unit(s).</p> <p>CL-9 was closed out after the alternative of capacity addition was included and it has been confirmed in the PoA DD that the addition of new capacity does not significantly affect the electricity generated by the existing units</p>		
10.9.2. In Section E.6.2 of CDM-SSC-PoA-DD, are equations including fixed/default parametric values to be used for calculations of emission reductions of a CPA provided and justified?	EB33 VVM	Ann43 90			
10.9.2.1. Baseline emissions?	VVM	89	<p>The baseline CO₂ emission factor of the grid (EF_{grid,CM,y}) is calculated as per the "Tool to calculate the emission factor for an electricity system" (version 2.2.1)</p> <p>CAR-6</p> <p>Calculation of grid emission factor is not in accordance with "Tool to calculate the emission factor for an electricity system" (version 2.2.1). And clarification is required whether the grid emission factor will be fixed at PoA level.</p> <p>CAR-6 was closed out after it was confirmed that the grid emission factor would be fixed</p>	CAR-6	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			at PoA level and the grid emission factor was correctly calculated based on "Tool to calculate the emission factor for an electricity system" (version 2.2.1) and in accordance with the official data published by Israel Electric Corporation(IEC)		
10.9.2.2. Project emissions?	VVM	89	Yes. PEy=0	OK	OK
10.9.2.3. Leakage?	VVM	89	Yes. LEy=0	OK	OK
10.9.2.4. Emission reductions?	VVM	89	Yes. ERy=BEy-PEy-LEy	OK	OK
10.9.3. In Section E.6.3 of CDM-SSC-PoA-DD, are data and parameters that are to be reported in CDM-CPA-DD provided?	EB33 VVM	Ann43 91	<p>CL-10</p> <p>The data/parameters provided in Section E.6.3 of PoA DD are not consistent with the applied methodology and considered incomplete.</p> <p>CL-10 was closed out after the data/parameters required by the applied methodology were added in Section E.6.3 of PoA DD and is considered complete</p>	CL-10	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			1. $NCV_{i,y}$ 2. $EF_{CO_2,i,y}$ 3. $FC_{i,m,y}$ 4. $EG_{m,y}$		
10.9.4. In cases where the selected methodology(ies) allows the use of sampling for the determination of parameter values for calculating GHG emission reductions, do project participants develop and describe the sampling plan in accordance with "Standard for sampling and surveys for CDM project activities and programme of activities"?	EB65	Ann2	N.A.	OK	OK
10.10. Application of the monitoring methodology and description of the monitoring plan					
10.10.1. In Section E.7.1 of CDM-SSC-PoA-DD, are data and parameters to be monitored by each CPA provided in accordance with the CDM-SSC-PoA-DD form?	EB33	Ann43	Yes.	OK	OK
10.10.2. In Section E.7.2 of CDM-SSC-PoA-DD, is a detailed description of the monitoring plan provided?	EB33	Ann43	Yes.	OK	OK
10.10.3. Is the monitoring plan for a CPA in accordance with the approved monitoring	EB55	6(j)	CL-11	CL-11	OK



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CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
methodology, including applicable tool(s)?	Ann38		Clarification is required on the monitoring for alternative of capacity addition. CL-11 was closed out after the monitoring parameter for alternative of capacity addition was available and consistent with the applied methodology.		
10.11. In Section E.8 of CDM-SSC-PoA-DD, is the following provided?	EB33	Ann43			
10.11.1. Date of completion of the application of the baseline study and monitoring methodology	EB33	Ann43	Yes.	OK	OK
10.11.2. The name of responsible person(s)/entity(ies)	EB33	Ann43	Yes.	OK	OK
11. Other information(Annex of CDM-SSC-PoA-DD)					
11.1. In Annex 1 of CDM-SSC-PoA-DD, is contact information on coordinating /managing entity and participants in the Programme of Activities provided as following?	EB33	Ann43	Yes.	OK	OK
11.1.1. Contact information on CME and participants in the PoA provided?	EB33	Ann43	Yes.	OK	OK
11.1.2. For each organization listed in section A.3, the	EB33	Ann43	Yes.	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
following mandatory fields: Organization, Name of contact person, Street, City, Postfix/ZIP, Country, Telephone and Fax or e-mail					
11.2. In Annex 2 of CDM-SSC-PoA-DD, is the background information regarding public funding provided?	EB33	Ann43	N.A.	OK	OK
11.3. In Annex 3 of CDM-SSC-PoA-DD, is the background information used in the application of the baseline methodology provided	EB33	Ann43	Pending on CAR-6 The background information regarding the grid emission factor calculation has been included in Annex 3 of PoA-DD.	Pending	OK
11.4. In Annex 4 of CDM-SSC-PoA-DD, is the background information used in the application of the monitoring methodology provided	EB33	Ann43	N.A.	OK	OK
12. Eligibility criteria for inclusion of a CPA in the PoA					
12.1. Do the eligibility criteria cover as a minimum the following?	EB65 Ann3	14			
12.1.1. The geographical boundary of the CPA including any time-induced boundary consistent with the geographical boundary set in the PoA	EB65 Ann3	14(a)	Yes. Eligibility criteria a The SSC-CPA should have its project site located in Israel	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
12.1.2. Conditions that avoid double counting of emission reductions like unique identifications of product and end-user locations (e.g. programme logo)	EB65 Ann3	14(b)	Yes. Eligibility criteria b The SSC-CPA shall be uniquely identified and defined by way of the unique identifying numbers (serial numbers) and GPS coordinates attached to each Solar PV installation, to ensure that all CPAs under this PoA are neither registered as an individual CDM project activity nor included in another registered PoA.	OK	OK
12.1.3. The specifications of technology/measure including the level and type of service, performance specifications including compliance with testing/certifications	EB65 Ann3	14(c)	Yes. Eligibility criteria c The SSC-CPA shall generate electricity using solar photo-voltaic (PV) technology (including but not limited to thin film and crystalline technology).	OK	OK
12.1.4. Conditions to check the start date of the CPA through documentary evidence	EB65 Ann3	14(d)	Yes. Eligibility criteria d The Panel purchase/EPC contract date, will be taken as the CPA start date. The CPA start date shall be after the PoA validation start date.	OK	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
12.1.5. Conditions that ensure compliance with applicability and other requirements of single or multiple methodologies applied by CPAs	EB65 Ann3	14(e)	<p>The electricity generated shall be fed to the Israeli National Grid.</p> <p>CL-12</p> <p>The applicability of the methodology applied by CPAs under the PoA is not completely listed in No.e of the eligibility criteria.</p> <p>CL-12 was closed out after the eligibility criteria No.e was updated and the applicability of the methodology applied was considered complete.</p> <p>Eligibility criteria e.</p> <p>The SSC-CPA shall comply with the applicability criteria of the methodology <i>AMS.I.D- Grid connected renewable electricity generation, version - 17.0.</i></p> <p>The SSC-CPA shall:</p> <ul style="list-style-type: none"> • Install a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity (Greenfield plant), OR • Involve a capacity addition. • Have installed capacity limits of: <p>(c) for Greenfield projects: not more than 15 MW</p>	CL-12	OK



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CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			<p>(d) for capacity addition projects: the added capacity of the units should be not more than 15 MW and should be physically distinct* from the existing units</p> <p>The CPA shall not include:</p> <ul style="list-style-type: none"> • Project activities that are a combined heat and power (co-generation) system • Projects that involve the retrofit of an existing plant(s) • Projects that involve the replacement of an existing plant(s) <p>Projects that involve the use of equipment that has been transferred from a different existing operational project (i.e. to avoid leakage)</p>		
12.1.6. The conditions that ensure that CPAs meet the requirements pertaining to the demonstration of additionality as specified in 10.5.3 in table 1 above.	EB65 Ann3	14(f)	N.A.	OK	OK

* Physically distinct units are those that are capable of generating electricity without the operation of existing units, and that do not directly affect the mechanical, thermal, or electrical characteristics of the existing facility. For example, the addition of a steam turbine to an existing combustion turbine to create a combined cycle unit would not be considered “physically distinct”.



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CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
12.1.7. The PoA-specific requirements stipulated by the CME including any conditions related to undertaking local stakeholder consultations and environmental impact analysis	EB65 Ann3	14(g)	Yes. Eligibility criteria f. The SSC-CPA should comply with the requirements stated in the generic CPA-DD for the following: · Stakeholder consultation · Environmental impact assessment	OK	OK
12.1.8. Conditions to provide an affirmation that funding from Annex I parties, if any, does not result in a diversion of official development assistance	EB65 Ann3	14(h)	Yes. Eligibility criteria g. Conditions to provide an affirmation that funding from Annex I parties, if any, do not result in a diversion of official development assistance.	OK	OK
12.1.9. Where applicable, target group (e.g. domestic/commercial/industrial, rural/urban, grid connected/ off-grid) and distribution mechanisms (e.g. direct installation);	EB65 Ann3	14(i)	N.A.	OK	OK
12.1.10. Where applicable, the conditions related to sampling requirements for a PoA in accordance with the approved guidelines/standard from the Board pertaining to sampling and surveys	EB65 Ann3	14(j)	N.A.	OK	OK



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CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
12.1.11. Where applicable, the conditions that ensure that every CPA in aggregate meets the small-scale or microscale threshold criteria and remains within those thresholds throughout the crediting period of the CPA	EB65 Ann3	14(k)	Yes. Eligibility criteria e. No more than 15MW for greenfield projects or lower than 15MW for capacity addition.	OK	OK
12.1.12. Where applicable, the requirements for the debundling check, in case CPAs belong to small-scale (SSC) or microscale project categories	EB65 Ann3	14(l)	<p>The SSC-CPA shall undergo a de-bundling check in line with “Guidelines on assessment of debundling for SSC project activities” (EB 54, Annex 13), and thus the SSC-CPA should not be a debundled component of any other large scale project activity.</p> <p>CL-13 Clarification is required on the detailed requirements for debundling check as per the “Guidelines on assessment of debundling for SSC project activities”.</p> <p>CL-13 was closed out after the detailed requirements for de-bundling check have been defined in the eligibility criteria, which is based on the “Guidelines on assessment of de-bundling for SSC project activities”(EB54 Ann13).</p> <p>Eligibility criteria g</p> <p>The SSC-CPA shall undergo a de-bundling check as follows:</p>	CL-13	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			<p>A proposed small-scale CPA of a PoA shall be deemed to be a de-bundled component of a large scale activity if there is already an activity which satisfies both conditions (a) and (b) below:</p> <p>3. Has the same activity implementer as the proposed small scale CPA or has a coordinating managing entity, which also manages a large scale PoA of the same technology/measure, and;</p> <p>4. The boundary is within 1 km of the boundary of the proposed small-scale CPA, at the closest point</p> <p>However, if the total size of such a CPA combined with a registered small-scale CPA of a PoA does not exceed an installed capacity of 15MW, then the proposed SSC CPA is not considered to be a debundled component of a large-scale activity.</p>		
12.1.13. Other criteria	EB65 Ann3	14	<p>Eligibility criteria i</p> <p>All the solar plant owners shall formally/legally own the land/ rooftops, on which the equipment is going to be installed, or rent the land/ rooftops from the legal owners.</p>	CL 14 CL 15	OK



VALIDATION REPORT

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			<p>Eligibility criteria j</p> <p>The solar plant owner shall own a Solar suspended license.</p> <p>Eligibility criteria k</p> <p>Contractual provisions to ensure that those operating the CPA are aware of, and have agreed, that their activity is being subscribed to the PoA.</p> <p>Eligibility criteria l</p> <p>The solar plant owners should have a cooperation agreement with the CPA operator.</p> <p>CL-14</p> <p>Clarification is required on the function and necessity solar suspended license.</p> <p>CL-14 was closed out after the function and necessity of solar suspended license have been clarified and the website of the suspend license has been validated by validation team.</p> <p>CL-15</p> <p>It is said in Section E.6 that "the energy equipments of a solar PV installation eligible</p>		



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CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			<p>for inclusion in this PoA is not transferred from another project activity". But no eligibility criteria about the equipment replacement.</p> <p>CL-15 was closed out after the updated eligibility criteria has included that equipment transferred from a different existing operational project will be not used in the PoA.</p> <p>Projects that involve the use of equipment that has been transferred from a different existing operational project" and "Projects that involve the replacement of an existing plant(s)" are not included</p>		
12.2. Are the eligibility criteria verifiable?	EB65 Ann3	15	<p>Pending on CL-13</p> <p>Yes.</p>	Pending	OK
12.3. Are the eligibility criteria sufficiently objective and comprehensive to permit the assessment of the inclusion of CPAs in the PoA?	EB65 Ann3	16	<p>Pending on CL-12, CL-13, CL-14 and CL-15</p> <p>Yes.</p> <p>The eligibility criteria are sufficiently objective and comprehensive to permit the assessment of the inclusion of CPAs in the PoA.</p>	Pending	OK



VALIDATION REPORT

Table 2 Resolution of Corrective Action and Clarification Requests

Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project owner response	Validation team conclusion
CAR-1: LoA from DNA of Israel has not been provided.	2.1	1st response from consultant: Provided- refer SD-20	1st response from DOE Letter of Approval for “Enlightened Solar PoA” dated 04/04/2012 issued by DNA of Israel was provided by the CME and validated by validation team. Hence CAR-1 is closed.
CAR-2: LoA from DNA of Annex I Party has not been provided	2.1	1st response from consultant: Provided- refer SD-32	1st response from DOE: Letter of Approval concerning Enlightened Solar PoA and Tricorona Carbon Asset Management Pte. Ltd. dated 18/06/2012 has been provided by the CME and validated by validation team. Hence CAR-2 is closed.
CAR-3: MoC has not been provided	4.1	1st response from consultant: Provided now, refer SD_28 2nd response from consultant:	1st response from DOE The contact information in Annex 1 of PoA DD has not been included in the MoC



VALIDATION REPORT

Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project owner response	Validation team conclusion
		The Annex 1 of the PoA-DD has been updated in accordance with F-CM MOC Form: Annex 1 contact details.	Hence CAR-3 is left open. 2nd response from DOE The contact information in Annex 1 of PoA DD has been updated and is included in the MoC. Hence CAR-3 is closed.
CAR-4: The title of EB54 Annex13 in Section A.4.4.1 of PoA DD is not consistent with the relevant document published by CDM EB	6.4.5.3	1st response from consultant: Updated to <i>"Guidelines on assessment of debundling for SSC Project Activities"</i>	1st response from DOE The title of EB54 Annex13 in Section A.4.4.1 of PoA has been corrected. Hence CAR-4 is closed.
CAR-5: The meeting number of the methodology is not correct in Section E.1 of PoA DD.	10.1	1st response from consultant: Updated to EB61	1st response from DOE: The meeting number of the applied methodology AMS I.D. Version 17 has been corrected. Hence CAR-5 is closed.
CAR-6: Calculation of grid emission factor is not in accordance with "Tool to calculate the emission factor for an electricity system" (version 2.2.1). And clarification is required	10.9.2.1	1st response from consultant: The calculation of the grid emission factor has been made consistent with "Tool to calculate the emission factor for	1st response from DOE The steps for grid emission factor calculation has been corrected applied and been considered



VALIDATION REPORT

Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project owner response	Validation team conclusion
whether the grid emission factor will be fixed at PoA level.		<p>an electricity system" (version 2.2.1). The grid emission factor will be fixed at the PoA level and not at the CPA level.</p> <p>2nd response from consultant:</p> <p>The weblink for the underlying data is http://www.iec.co.il/environment/Pages/AirQualityMonitoringIN.aspx . However, the data has been updated very recently, so is different from the underlying data used by the PP at the time of the start of validation. A letter from IEC (supporting the DNA), is now provided (SD-32) that confirms the fact that the underlying grid data was updated very recently, well after the start of validation date.</p> <p>The underlying data used by us is no longer publicly available on the DNA website. We have provided the underlying grid EF data (SD-13).</p> <p>The grid emission factor calculation is now updated as per EB's requirement in the template EF spreadsheet – please refer to SD-30.</p>	<p>consistent with Tool to calculate the emission factor for an electricity system" (version 2.2.1).</p> <p>Validation team has also validated the grid emission factor calculation, but cannot justify the data source of the provided data.</p> <p>Thus CAR-6 is left open.</p> <p>2nd response from DOE</p> <p>The letter from IEC has also been provided and validated by validation team. Validation team can here confirm that the data source in the EF spreadsheet is consistent with provided official data and that the calculation is in accordance with Tool to calculate the emission factor for an electricity system Version02.2.1. The calculation result, which has been corrected in the calculation of the PoA, is minor different from Grid emission factor 2006-2010+build margin+average operating margin issued by Israel Electric Corporation(IEC), because</p>



VALIDATION REPORT

Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project owner response	Validation team conclusion
			the Grid emission factor 2006-2010+build ,margin+average operating margin was not fully consistent with Tool to calculate the emission factor for an electricity system. Hence CAR-6 is closed.
CL-1: The relationship among the CME, CPA operator(s) and CPA owner has not been provided in the Section A.2 of PoA-DD.	6.2.1	1st response from consultant: Updated in the PoA-DD. The Plant Owners own the power plants that are included in each CPA. There is now not a 'CPA Owner' as there could be several power plants owned by different entities in a CPA. The CPA Operator is Enlightened Capital. The CPA Operator will have a contract with each of the power plant owners. The CPA Operator has an Emissions Reductions Purchase Agreement (ERPA) with the CME such that the CME will buy all the CERs generated by the PoA.	1st response from DOE: The relationship among the CME, CPA operator(s) and CPA owner has been clarified. Validation team has validated the emission reductions purchase agreement(ERPA) between Enlightened Capital(CPA operator) and Tricorona Carbon Asset Management Pte Ltd(CME) and the template of the contract between CPA operator and the plant owners. Hence CL-1 is closed.
CL-2: Clarification is required on what the technical specifications listed are based on including performance ratio, yearly	6.4.2	1st response from consultant: Most technical parameters in Table 2 are	1st response from DOE The technical specifications in PoA



VALIDATION REPORT

Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project owner response	Validation team conclusion
operational hours. Plant load factor, inverter, equipment lifetime and so on		<p>now deleted as unnecessary. The other parameters are specified and evidenced at the CPA level.</p> <p>The technical lifetime of the panels at different installations are based as follows:</p> <ol style="list-style-type: none"> 1) Batacha Farm 65: SD-21 2) Batacha Farm 72: SD-22 3) Beit Nechamya: SD-23 4) Kibbutz Avigdor, Avigad farm: SD-24 5) Mishmar Ayalon Farm 14 and 6: SD-25 <p>The warranties for the panels cover up to 25 years, as given by the manufacturer (refer to the above supporting documents). The panel 25-year warranty indicates the technical lifetime – this is generally applicable to solar panels. This may be shorter than the length of the Suspended License but equipment lifetime is not determined by the length of the Suspended License.</p>	<p>DD have nothing to do with the actual equipments applied in the specific CPA. In other word, the specific CPA can not cover the all options at PoA level.</p> <p>Thus CL-2 is left open.</p> <p>2nd response from DOE</p> <p>Table 2 has been deleted from the PoA-DD. The specific information is not included at PoA level.</p> <p>Hence CL-2 is closed.</p>



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Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project owner response	Validation team conclusion
		2nd response from consultant: Table 2 has been deleted from the PoA-DD.	
CL-3: Clarification is required on whether it would be implemented in the absence of the PoA in Section A.4.3 of PoA-DD	6.4.4.2	1st response from consultant: Updated in the PoA-DD. There are no regulations mandating the development of solar plants in Israel. The CPAs to be included in the PoA not be implemented in the absence of the CDM.	1st response from DOE: The PoA is a voluntary coordinated action that would not be implemented in the absence of the PoA. Hence CL-3 is closed.
CL-4: Clarification is required on whether a mandatory policy/regulation is implemented. If the PoA is implementing a mandatory policy/regulation, clarification is required on whether it is enforced.	6.4.4.3	1st response from consultant: Updated in the PoA-DD. The PoA is not implementing mandatory policy/regulation for there are no regulations mandating the development of solar plants in Israel.	1st response from DOE: No regulations mandating the development of solar plants are available in Israel, which has been demonstrated via reviewing Climate Change Policy in Israel issued by Israel's DNA in Nov.2011 and validation team's onsite interview. Hence CL-4 is closed.
CL-5: Clarification is required on how to avoid double counting from other registered CDM	6.4.5.2	1st response from consultant:	1st response from DOE:



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Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project owner response	Validation team conclusion
projects or CPAs included under other registered PoA in A.4.4.1 of PoA DD.		Updated in the PoA-DD to "Each proposed new power plant to be included in the PoA will be cross-checked against the Enlightened Solar Database and also against the database of CDM projects and PoA's on the UNFCCC website. The unique Suspended License number issued by the Israel Electricity Authority and/or the location (geographical coordinates) of each power plant will enable accurate identification of each new project."	Validation team has checked the A.4.4.1 of PoA-DD and the document of Enlightened Solar PoA Management System and is able to conclude that a system/procedure to avoid double accounting has been available. Hence CL-5 is closed.
CL-6: Section A.4.4.2 of PoA-DD is silent about whether the status of verification can be determined any time for each CPA	6.4.6.2	1st response from consultant: Updated in the PoA-DD to "The CME will ensure that no double accounting occurs and that the status of verification can be determined anytime for each CPA."	1st response from DOE: It has been indicated in Section A.4.4.2 of PoA-DD that the status of verification can be determined anytime for each CPA. Hence CL-6 is closed.
CL-7: In Section C.1 of PoA DD, CPA level has been chosen for the environmental analysis. Thus clarification is required on why documentation on the analysis of environmental analysis was also provided in	8.2	1st response from consultant: Updated in the PoA-DD to "Environmental impacts are assessed at the CPA level."	1st response from DOE: The environmental analysis will be conducted at CPA level. It has been confirmed in Section C.1 and C.2 of PoA-DD.



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Section C.2			Hence CL-7 is closed.
CL-8: The description of the identified baseline scenario in Section E.4 of PoA DD is not fully consistent with the applied methodology AMS I.D. Version17	10.5.4	<p>1st response from consultant:</p> <p>Updated in the PoA-DD to “<i>As per the Methodology</i>, the baseline scenario is that the 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 into the grid.”</p>	<p>1st response from DOE:</p> <p>The baseline scenario is correctly identified and in accordance with the applied methodology.</p> <p>Hence CL-8 is closed.</p>
CL-9: Section E.6.1 of PoA-DD is silent about the baseline for the option of capacity addition. And clarification is required on the whether the addition of new capacity will significantly affect the electricity generated by existing plant(s) or unit(s).	10.9.1	<p>1st response from consultant:</p> <p>Updated in the PoA-DD. Section E.6.1 now describes the option for projects that are capacity addition projects.</p> <p>2nd response from consultant:</p> <p>For solar power plants, capacity addition is undertaken on a modular basis by adding panels. As such, the addition of new capacity does not significantly affect the electricity generated by the existing units.</p>	<p>1st response from DOE:</p> <p>It should be clarified that the addition of new capacity whether will significantly affect the electricity generated by existing plant(s) or unit(s). If not, “the electricity produced by the added power plant(s) or unit(s) could be directly metered and used to determine $EG_{BL,y}$. provided that the electricity produced by the added power plant(s) or unit(s) addition is</p>



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			<p>separately metered.”</p> <p>Please refer to last paragraph of Page 5 of the methodology.</p> <p>Thus CL-9 is left open.</p> <p>2nd response from DOE</p> <p>It has been confirmed in the PoA DD that the addition of new capacity does not significantly affect the electricity generated by the existing units, which has been considered reasonable by the validation team.</p> <p>Hence CL-9 is closed.</p>
<p>CL-10: The data/parameters provided in Section E.6.3 of PoA DD are not consistent with the applied methodology and considered incomplete</p>	10.9.3	<p>1st reesponse from consultant:</p> <p>Updated in the PoA-DD. The following parameters have been revised or added:</p> <ol style="list-style-type: none"> 1. $NCV_{i,y}$ 2. $EF_{CO2,i,y}$ 3. $FC_{i,m,y}$ 4. $EG_{m,y}$ 	<p>1st resposne from DOE:</p> <p>The data/parameters required by the applied methodology have been added in Section E.6.3 of PoA DD and is considered complete.</p> <p>Hence CL-10 is closed.</p>



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CL-11: Clarification is required on the monitoring for alternative of capacity addition	10.10.3	<p>1st response from consultant:</p> <p>Updated in the PoA-DD. Section E.6.2 of the POA-DD has been updated to include description of how emission reductions would be calculated in the case of capacity addition projects.</p> <p>In Section E.7.1, the following parameters have been added:</p> <ol style="list-style-type: none"> 1. $EG_{\text{historical}}$ 2. $DATE_{\text{BaselineRetrofit}}$ 3. $\sigma_{\text{historical}}$ <p>2nd response from consultant:</p> <p>Since the added capacity will not affect the electricity generation of the existing plant, the net electricity electricity transferred to the grid by the added capacity will be monitored separately through a separate electricity meter, which will be used to determine the parameter $EG_{\text{BL},y}$.</p>	<p>1st response from DOE:</p> <p>Pending on the response to CL-9</p> <p>2nd response from DOE</p> <p>The added capacity will be monitored separately through a separate electricity meter. It is considered to be consistent with the applied methodology since the added capacity will not affect the electricity generation of the existing plant</p> <p>Hence CL-11 is closed.</p>
CL-12: The applicability of the methodology applied by CPAs under the PoA is not	12.1.5	1st response from consultant:	1st response from DOE:



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Draft report clarifications and corrective action requests by validation team	Ref. to checklist question in table 1	Summary of project owner response	Validation team conclusion
completely listed in No.e of the eligibility criteria		<p>Updated in the PoA-DD to :</p> <p>The CPA shall not include:</p> <ul style="list-style-type: none"> • Projects that involve the retrofit of an existing plant(s) • Projects that involve the replacement of an existing plant(s) • Projects that involve the use of equipment that has been transferred from a different existing operational project (i.e. to avoid leakage) 	<p>The eligibility criteria No.e has been updated. And the applicability of the methodology applied has been considered complete.</p> <p>Hence CL-12 is closed.</p>
<p>CL-13: Clarification is required on the detailed requirements for de-bundling check as per the “Guidelines on assessment of de-bundling for SSC project activities”.</p>	12.1.12	<p>1st response from consultant:</p> <p>Updated in the PoA DD to:</p> <p>The SSC-CPA shall undergo a de-bundling check as follows:</p> <p>A proposed small-scale CPA of a PoA shall be deemed to be a de-bundled component of a large scale activity if there is already an activity which satisfies both conditions below:</p> <ol style="list-style-type: none"> 1. Has the same activity implementer as the proposed small scale CPA or has a 	<p>1st response from DOE:</p> <p>The detailed requirements for de-bundling check have been defined in the eligibility criteria, which is based on the “Guidelines on assessment of de-bundling for SSC project activities”(EB54 Ann13)</p> <p>Hence CL-13 is closed.</p>



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		<p>coordinating managing entity, which also manages a large scale PoA of the same technology/measure, and;</p> <p>2. The boundary is within 1 km of the boundary of the proposed small-scale CPA, at the closest point</p> <p>However, if the total size of such a CPA combined with a registered small-scale CPA of a PoA does not exceed an installed capacity of 15MW, then the proposed SSC CPA is not considered to be a debundled component of a large-scale activity.</p>	
CL-14: Clarification is required on the function and necessity solar suspended license	12.1.13	<p>1st response from consultant:</p> <p>A Solar Suspended License is issued to proposed solar projects that meet the national regulatory requirements and criteria and submit a compliant license application. Projects that are granted a Suspended License have a certain time period within which to meet development milestones – such as financial close –</p>	<p>1st response from DOE:</p> <p>The function and necessity of solar suspended license have been clarified. And the website of the suspend license has been validated by validation team.</p> <p>Hence CL-14 is closed.</p>



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		<p>and to apply for a Permanent License. There is a limited quota of installed MW that will be issued a Permanent License such that not all projects that receive a Suspended License will receive a Permanent License.</p> <p>In order to successfully be granted a Suspended License, project proponents must submit an application that includes:</p> <ul style="list-style-type: none"> - land/ rooftop ownership deeds or rental agreements - a construction permit, which includes assessment of environmental impacts - a Feasibility Study Report - Technology description and estimated MWhrs generated 	
<p>CL-15: It is said in Section E.6 that “the energy equipments of a solar PV installation eligible for inclusion in this PoA is not transferred from another project activity”. But no eligibility criteria about the equipment replacement</p>	12.1.13	<p>1st response from consultant:</p> <p>Eligibility criteria (e) is now updated in the PoA-DD to state that “Projects that involve the use of equipment that has been transferred from a different existing operational project” and “Projects that involve the replacement of an existing</p>	<p>1st response from DOE</p> <p>The updated eligibility criteria has included that equipment transferred from a different existing operational project will be not used in the PoA. Hence CL-15 is closed.</p>



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		plant(s)" are not included	