




**Validation report form for renewal of crediting period for  
CDM project activities  
(Version 03.0)**

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

**BASIC INFORMATION**

<b>Title and UNFCCC reference number of the project activity</b>	3.7 MW Bundle Wind Power Project in Maharashtra (UNFCCC Ref. no. 9887) <sup>1</sup>
<b>Number and duration of the next crediting period</b>	2 <sup>nd</sup> renewable crediting period 20/02/2021 to 19/02/2028
<b>Version number of the validation report</b>	01
<b>Completion date of the validation report</b>	03/05/2021
<b>Version number of PDD to which this report applies</b>	09 dated 27/04/2021
<b>Project participants</b>	M/s Arvind Cotsyn (India) Ltd.
<b>Host Party</b>	India
<b>Applied methodologies and standardized baselines</b>	AMS-I.D. "Grid connected renewable electricity generation" Version 18 Standardized baselines – Not Applicable
<b>Mandatory sectoral scopes</b>	Scope 1: Energy Industries (renewable-/non-renewable sources)
<b>Conditional sectoral scopes, if applicable</b>	NA
<b>Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next crediting period</b>	6,002 tCO <sub>2</sub> e
<b>Name and UNFCCC reference number of the DOE</b>	LGAI Technological Center, S.A. (Applus+ Certification) UNFCCC Ref. No.: E-0032
<b>Name, position and signature of the approver of the validation report</b>	Mr. Agustín Calle de Miguel Applus+ Certification CDM Technical Manager Signature: 

<sup>1</sup> <https://cdm.unfccc.int/Projects/DB/RWTUV1391526290.27/view>

## SECTION A. Executive summary

M/s Arvind Cotsyn (India) Ltd. supports implementation of a 3.7 MW wind power project consisting of 4 Wind Turbine Generators (WTGs) of 2 no. of machines of 600 kW and 2 no. of machines of 1250 kW (all Suzlon make) in Maharashtra, India. The project activity is in line with the sustainable development priority of the country. This project aims at providing electricity to the regional electricity grid through effective utilization of renewable resource which, in the case of the project activity, is wind power.

The main purpose of the project activity is to generate electrical energy through sustainable means using wind power resources and to contribute to climate change mitigation efforts. In the absence of the project activity, the electricity thus supplied would have been generated through fossil fuel based thermal power plants. The project activity thus contributes to reduction in specific emissions (emissions of pollutant) including GHG emissions. The project activity is also responsible for sustainable economic growth and conservation of environment through use of wind energy as a renewable source. Net annual electricity generation from the wind energy project unit to the grid is 6,372 MWh/year. The annual estimated GHGs emissions reductions from this project activity are 6,002 tCO<sub>2</sub> e.

As the proposed activity is a Greenfield activity and in the absence of the project activity 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 in the grid

**Validation Scope:** The scope is defined as an independent and objective review of the project design document (PDD). The PDD is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board, including the approved baseline and monitoring methodology AMS-I.D. ver. 18. The validation was based on the requirements in the CDM validation and verification standard for project activities, version 02.

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

**Validation Process:** The project assessment is based on the “CDM validation and verification standard for project activities, version 02 and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the CDM project activity are appointed.

Once the project is made available for the global stakeholder consultation process, the members of the assessment team carried out:

- I. A desk review of the project design documentation;
- II. Follow-up interviews with project stakeholders;
- III. The resolution of outstanding issues and the issuance of the final validation report and opinion.

The prepared validation report and other supporting documents then undergo an internal quality control at the HQ (Accredited office) before being submitted to the CDM-EB.

In order to ensure transparency, assumptions must be clear and stated explicitly and background material must also be referenced. Applus+ Certification has developed a specific Checklist customized for the project. The checklist demonstrates, in a transparent manner, the project criteria (requirements), discussion on each criterion by the assessment team, and the results from validating the identified criteria.

### **Appointment of the assessment team**

According to the sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of Applus+ Certification.

The composition of audit team shall be approved by Applus+ Certification ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA)
- Auditor (A) / Auditor in Training (AiT)
- Technical Expert (TE)
- Technical Reviewer (TR)

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team.

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Mr. Pankaj Kumar	LA/TE	YES	YES	N/A	YES
Mr. Simon Shen	TR	YES	YES	N/A	NA

The complete list of CVs is included as Appendix 2 of this report.

### **Document review**

The Project Design Document submitted by the client was reviewed against the approved methodology and other relevant criteria to verify the correctness, credibility, and interpretation of the presented information. Furthermore, a cross-check between information provided and information from other sources like 3<sup>rd</sup> party Government documents has been done. A complete list of all documents and evidence material reviewed is included in Appendix 3 of this report.

### **Follow-up interviews**

The site visit at validation for the project activity is not conducted in line with the para 30 of VVS-PA, Ver. 02.0, Applus+ Certification performed interviews, telephone conferences, and interview with project stakeholders to confirm selected information and to resolve issues identified in the document review. The detail is provided in section C.2 and C.3 of this report.

### **Resolution of Clarification and Corrective Action Request**

The objective of this phase of the validation was to resolve the requests for corrective actions and clarification and any other outstanding issues which need to be clarified for Applus+ Certification positive conclusion on the project design. The Corrective Action Requests and Clarification Requests raised by Applus+ Certification were resolved during communications between the Client and Applus+ Certification to guarantee the transparency of the validation process, the concerns raised and responses given are summarized in Appendix 4 below.

The final PDD version 09 submitted by the PP on 27/04/2021 serves as the basis for the final assessment presented. Additional changes to the project during the validation process are not considered to be significant with respect to the main CDM objectives. The two CDM main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

### **Internal quality control**

As a final step for Validation for RCP assessment, the final documentation, including the Validation of RCP Report, has to undergo an internal quality control by the Technical Reviewer(s) to be approved.

Details of the Technical Reviewer(s) are provided within the Validation of RCP Report in Section B.2. and Appendix 2 for further references of knowledge and capability to conduct the quality checking.

After the Technical Review process, the final documentation may undergo a final quality checking process called Administrative Review, done by the Applus+ Certification's Project Manager and/or Technical Support.

For final approval, the final set of documents are prepared by the DOE's Technical Manager or its deputy and signed by the authorized signatory of the DOE.

In case any of the persons performing this final internal quality control approval process has acted as a part of the Assessment Team or Technical Review team, the approval can only be given by DOE's authorized personnel who are not part of those teams.

If the final set of documents has been satisfactorily approved, a request of renewal of crediting period is submitted to the UNFCCC CDM EB along with the relevant documents.

## **Conclusion**

Applus+ Certification has performed the validation for Renewal of CP of the "3.7 MW Bundle Wind Power Project in Maharashtra". The validation was performed on the basis of UNFCCC criteria and host country criteria, as well as criteria, e.g. AMS-I.D Version 18.0, given to provide for consistent project operations, monitoring and reporting.

The review of the project design documentation and the subsequent follow-up interviews have provided Applus+ Certification with sufficient evidence to determine the fulfilment of stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM and all relevant host country criteria. The project will hence be recommended by Applus+ Certification for renewal with the UNFCCC.

By displacing fossil fuel-based electricity with electricity generated from a renewable source, the project results in reductions of CO<sub>2</sub> emissions that are real, measurable and give long-term benefits to the mitigation of climate change. An analysis of the positive list of renewable project demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of annual emission reductions of is 6,002 tCO<sub>2</sub>e.

The validation of RCP has been performed following the requirements of the latest version of the CDM validation and verification standard for project activities, Version 02.0 and on the basis of the contractual agreement. The single purpose of this report is its use during the renewal process as part of the CDM/ UNFCCC project cycle.

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

### **B.1. Validation team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	Remote audit	Interview(s)	Validation findings
1.	Lead Auditor/ Technical Expert	OR	Kumar	Pankaj	True Quality Certifications Private Limited - Outsourced entity	YES	YES	YES	YES

### **B.2. Technical reviewer and approver of the validation report for RCP**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical Reviewer	El	Shen	Simon	Applus+ Certification

2.	Approver	IR	Calle de Miguel	Agustin	Applus+ Certification
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## SECTION C. Means of validation

### C.1. Desk/document review

The details of the document observed during desk review /validation process are listed below in Appendix 3 of this report.

### C.2. On-site inspection

As per the requirement of Para 30 of CDM Validation and Verification Standard (VVS) for project activities, Version 02.0, Para (a) since the emission reduction estimated is less than 100,000 tCO<sub>2eq</sub>, assessment team didn't conduct the site visit for 2<sup>nd</sup> renewal of registered PA (UNFCCC reference number: 9887). To validate the PA design, eligibility criteria, monitoring & management practices as mentioned in the PDD; assessment team has conducted telephonic interviews with PP in compliance with para 31 of VVS for project activities, Ver. 02.0. After telephonic interviews with concerned PP representative; assessment team concluded that the design of PA is same as envisaged in 1<sup>st</sup> CP. There is no change in the eligibility of PA design or operation and monitoring practices as mentioned in the registered PA of 1<sup>st</sup> CP which can alter the applicability or additionality of the project activity/methodology applied i.e. AMS.I.D Version 18. Assessment team therefore of the opinion that project is will be implemented as described in the registered PDD for 1<sup>st</sup> crediting period and no change is envisaged for the proposed 2<sup>nd</sup> crediting period.

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

### C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Marda	Shyamsunder	PP representative	04/05/2021	PA design, monitoring & management practices of the PDD, eligibility criteria of applied methodology Relevance of baseline scenario.	Mr. Pankaj Kumar
2.	Ghosh	Bibhushita	Consultant			

### C.4. Sampling approach

The assessment team did not apply any sampling approach for the project activity.

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

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	00	00	00
Application and selection of methodologies and standardized baselines	00	00	00
Validity of original baseline or its update	00	00	00
Estimated emission reductions or net anthropogenic removals	00	00	00
Validity of monitoring plan	00	00	00
Crediting period	00	00	00
Project participants	00	00	00
Post-registration changes	00	00	00
Others – Host country DNA, weblink FAR was raised in line with EB 109, Appendix 1, Para 4.	00	01	00
<b>Total</b>	<b>00</b>	<b>01</b>	<b>01</b>

## SECTION D. Validation findings

## D.1. Compliance with PDD form

Means of validation	Assessment team checked the PDD Version 11.0 forms supplied by the project participant and found that the latest form applicable in the UNFCCC web site is used for the presentation of the PDD.																															
Findings	No findings were raised in this section during validation																															
Conclusion	The PDD mentions all the criteria as detailed out in PDD form Version 11.0 properly and found correct by the assessment team.																															
	The project activity implemented 3.7 MW wind power project consisting of 4 Wind Turbine Generators (WTGs) of 2 no. of machines of 600 kW (make SEL), 2 no. of machines of 1250 kW (make SEL) in Maharashtra, India. The electricity generated from the wind farm is exported to the regional electricity grid and sold to the state electricity utility thereby marginally contributing to reducing the energy demand supply gap in the state of Maharashtra, diversification of grid supply and reduce greenhouse gas emissions.																															
	<table><tr><th>Project WTG</th><th>Capacity (MW)</th><th>Village</th><th>District</th><th>State</th><th>Country</th></tr><tr><td rowspan="2">Arvind Cotsyn (India) Ltd.</td><td>0.600 X 1</td><td>Tisangi</td><td rowspan="4">Sangli</td><td rowspan="4">Maharashtra</td><td rowspan="4">India</td></tr><tr><td>1.250 X 1</td><td>Dhondewadi</td></tr><tr><td rowspan="2">Arvind Dyeing &amp; Bleaching Mills Pvt. Ltd.</td><td>0.600 X 1</td><td>Nagaj</td></tr><tr><td>1.250 X 1</td><td>Tisangi</td></tr><tr><td>Total Capacity</td><td colspan="5">3.7 MW</td></tr></table>						Project WTG	Capacity (MW)	Village	District	State	Country	Arvind Cotsyn (India) Ltd.	0.600 X 1	Tisangi	Sangli	Maharashtra	India	1.250 X 1	Dhondewadi	Arvind Dyeing & Bleaching Mills Pvt. Ltd.	0.600 X 1	Nagaj	1.250 X 1	Tisangi	Total Capacity	3.7 MW					
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Technical details for S-52, 600 kW Machine manufactured by Suzlon Energy Ltd.																																
<table><tr><th>Sr. No.</th><th>Particulars</th><th>Details</th></tr><tr><td>1</td><td>Rotor Diameter</td><td>52 m</td></tr><tr><td>2</td><td>Rated Rotational Speed</td><td>24.2 rpm</td></tr><tr><td>3</td><td>Rated Power</td><td>600 kW</td></tr><tr><td>4</td><td>Hub Height</td><td>75 m</td></tr><tr><td>5</td><td>Cut-in Wind Speed</td><td>4 m/s</td></tr><tr><td>6</td><td>Rated Wind Speed</td><td>12 m/s</td></tr><tr><td>7</td><td>Cut-off wind Speed</td><td>25 m/s</td></tr><tr><td>8</td><td>Design Life Time</td><td>20 years</td></tr></table>						Sr. No.	Particulars	Details	1	Rotor Diameter	52 m	2	Rated Rotational Speed	24.2 rpm	3	Rated Power	600 kW	4	Hub Height	75 m	5	Cut-in Wind Speed	4 m/s	6	Rated Wind Speed	12 m/s	7	Cut-off wind Speed	25 m/s	8	Design Life Time	20 years
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Technical details for S-66, 1250 kW Machine manufactured by Suzlon Energy Ltd.																																
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1	Rotor Diameter	66 m
2	Rated Rotational Speed	20.6 rpm
3	Rated Power	1250 kW
4	Hub Height	74 m
5	Cut-in wind speed	4 m/s
6	Rated wind speed	12 m/s
7	Cut off wind speed	20 m/s
8	Design Life Time	20 years

By replacing the electricity of the regional grid, which is heavily dominated by fossil fuel fired power plants; with electricity generated from wind power project activity will achieve obvious greenhouse gas (GHG) emission reductions by avoiding CO<sub>2</sub> emissions. Assessment team also checked the commissioning details and found the same to be correct. The actual commissioning date checked from the 3<sup>rd</sup> party Government documents and found to be accurate.

Assessment team checked the geographical coordinate of the project activity with GPS meter and cross checked the same with the google Map. The latitude and longitude of four wind turbines in the district Sangli in the state of Maharashtra, India as mentioned in the registered PDD for 1<sup>st</sup> crediting period is found correct. The exact location of the individual WTGs is as under:

Project WTG	Capacity (MW)	UID	Latitude			Longitude		
			Deg	Min	Sec	Deg	Min	Sec
Arvind Cotsyn (India) Ltd.	0.600 X 1	Loc. No. W-66	N 17	08	38.0	E 74	51	55.8
	1.250 X 1	Loc. No. G-377	N 17	11	56.6	E 74	43	15.4
Arvind Dyeing & Bleaching Mills Pvt. Ltd.	0.600 X 1	Loc. No. W-11	N 17	07	53.6	E 74	54	19.1
	1.250 X 1	Loc. No. G-335	N 17	08	55.9	E 74	50	17.7
<b>Total Capacity</b>		<b>3.7 MW</b>						

No post registration changes is envisaged for the 2<sup>nd</sup> CP as the project is implemented as per the registered PDD of 1<sup>st</sup> CP and in continuous operation apart from scheduled maintenance (as per manufacturer specification) and thus there is no scenario observed which can alter the requirement of the methodology. The project activity complies with the applicability criteria of the small scale CDM Project activity category. The capacity of the proposed project is 3.7 MW, which is not more than the maximum qualifying Type I capacity of 15 MW. Thus the project qualifies as small scale project. There is no change in installed capacity of the project as mentioned in registered PDD for 1<sup>st</sup> CP. The same is checked by the assessment team during teleconference with PP and document review and found correct.

## D.2. Application and selection of methodologies and standardized baselines

<b>Means of validation</b>	<p>The assessment team has validated the documentation referred to in the revised PDD for renewable of crediting period and verified the documentation content for verifying the justification of the applicability of the methodology AMS-I.D Version 18 and confirmed that the documentation referred to in the PDD is correctly quoted and interpreted. The assessment team has also cross-checked the information provided in the registered PDD of 1<sup>st</sup> CP with the documentation other than from the PDD based on the local and sectoral knowledge of the assessment team.</p> <p>Following documentation has been reviewed by the assessment team:</p> <ul style="list-style-type: none"> <li>- Telephonic interview with PP representative and site personnel.</li> <li>- Interview with the concerned person mentioned in this report</li> </ul>
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	<ul style="list-style-type: none"> <li>- Technical detail analysis of the power plant from the documents submitted by the manufacturer.</li> <li>- Commissioning certificates of the turbines</li> <li>- Monitoring plan details submitted by the PP</li> </ul> <p>The assessment of the project's compliance with the applicability criteria of AMS-I.D version 18 are documented in detail in section B.2 of the PDD.</p>
<b>Findings</b>	No findings were raised in this section during validation
<b>Conclusion</b>	<p>The applied baseline methodology is justified as it has been demonstrated that the proposed project activity is:</p> <p>Applicability 1: The project activity is a Renewable Energy Project i.e. Wind Power Project which falls under applicability criteria option 4(a) i.e., "Install a Greenfield plant;" hence the project activity meets the given applicability criterion.</p> <p>Applicability 2: The 1<sup>st</sup> and 3<sup>rd</sup> option of the Table of AMS-I.D. Version 18.0 Appendix is applicable.</p> <p>Applicability 3: The project is installation of new wind based electricity generation plants (not addition to existing system). Option (a) is applicable.</p> <p>Applicability 4: The project is wind power project and thus the criterion is not applicable to this project activity.</p> <p>Applicability 5: The project activity is 3.7 MW wind electricity generation. Unit does not co-fire fossil fuels. Hence the criterion is not applicable to the project activity.</p> <p>Applicability 6: The Project activity is a renewable wind energy project and is not a combined heat and power system. Hence the criteria is not applicable to the project activity</p> <p>Applicability 7: The project activity is Greenfield and there is no existing power generation facility at the site. Hence the criteria is not applicable to the project activity</p> <p>Applicability 8: Not applicable, the wind project is a Green field project activity and this project is not the enhancement or up gradation project.</p> <p>Applicability 9: The Project activity is a renewable wind power project and is not a landfill gas, waste gas, waste water treatment and agro-industries projects or recovered methane emissions project. Hence the criteria is not applicable to the project activity</p> <p>Applicability 10: The Project activity is a renewable wind power project and is not a biomass project. Hence the criterion is not applicable to the project activity.</p> <p><b><u>Applicability conditions of "Tool to calculate the emission factor for an electricity system"</u></b></p> <ul style="list-style-type: none"> <li>• OM, BM and CM are estimated using the tool for calculating baseline emissions.</li> <li>• The project activity is grid connected and thus emission factor is calculated and thus OM, BM and CM are estimated using the tool for calculating baseline emissions.</li> <li>• The project activity is located in India, a non-Annex I country. Therefore, tool is applicable for the project activity.</li> <li>• The project is a Wind power project and there is no involvement of biofuels. Therefore, this criterion is not applicable for the project activity.</li> </ul> <p>Applus+ Certification confirms that the application of the baseline methodology is transparent and conservative and confirms that the chosen baseline and monitoring methodology i.e. AMS-I.D. version 18.0 is applicable to the project activity.</p>



	The total installed capacity of project activity is 3.7 MW which is applicable as per small scale project activities methodology AMS-I.D. version 18.0. The project capacity will always remain the same and hence the project activity will always be small scale project activity throughout the 2nd crediting period and thereafter.
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### D.3. Validity of original baseline or its update

<b>Means of validation</b>	The baseline scenario as depicted in the PDD version 09 is checked during the validation by means of teleconference with PP and also during the interview with the plant official.
<b>Findings</b>	The baseline is selected as per the requirement of the approved methodology AMS-I.D version 18 for the present Crediting period.
<b>Conclusion</b>	<p>Assessment team referred "Methodological tool (EB 66, Annex 47) "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period." (Version 03.0.1)" and VVS version 02 for the project activity" to check the originality of the baseline. Following are the observation of the assessment team regarding selected baseline for the project activity in this present 2<sup>nd</sup> renewable crediting period:</p> <p><u>Step 1.1 (EB 66, Annex 47): Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies</u></p> <p>The baseline for the project activity is the electricity delivered to the grid by the project activity which 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 project activity is claiming the emission reductions from the net exported electricity to the grid only. In absence of project activity this quantity of electricity would have been generated from the electricity grid mix (mainly fossil fuel). The Government of India enacted the Electricity Act in the year 2003 to harmonize and rationalize the provisions in the then existing laws. The Act consolidated the laws relating to generation, transmission, distribution, trading and use of electricity. With the Enactment of the act, the then existing laws viz, The Indian Electricity Act 1910, The Electricity Supply Act, 1948 and The Electricity Regulatory Commissions Act, 1998 were repealed. The Electricity Act 2003 was in force at the time of the completion of the baseline study during first crediting period.</p> <p>The baseline remains unchanged for the present crediting period since there is no policy been revised and/or is currently in force as well, therefore the baseline scenario is still in compliance with all the relevant mandatory national and/or sectoral policies.</p> <p><u>Step 1.2 (EB 66, Annex 47) : Assess the impact of circumstances</u></p> <p>There are no new circumstances that can impact the original baseline. The baseline emission factor value is however updated based on the current data available for the grid.</p> <p><u>Step 1.3 (EB 66, Annex 47): Assess whether the continuation of the use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested</u></p> <p>As explained in step 1.2, the baseline scenario was the electricity import/generation from the power plants connected to the electricity grid. Therefore this condition is not applicable to the project activity.</p> <p><u>Step 1.4 (EB 66, Annex 47): Assessment of the validity of the data and parameters</u></p> <p>This step stipulates that "Where emission factors, values or emission benchmarks are used and determined only once for the crediting period, they should be updated, except if the emission factors, values or emission benchmarks are based on the historical situation at the site of the project activity prior to the implementation of the project and cannot be updated because the historical situation does not exist anymore as a result of the CDM project activity."</p>

	<p>The project chosen <b>ex-ante default value i.e. Emission Factor</b>. As per the Guidance given in Tool the emission factor is updated as follows:</p> <ol style="list-style-type: none"> <li>1. The operating margin is calculated as per the latest version of CEA (Version 15) available to the project participant. The operating margin calculation is checked by the assessment team and found correct.</li> <li>2. The build margin is considered from CEA database version 15 as per "Tool to calculate the emission factor for electricity system" version 07. The value considered is checked by the assessment team and found correct</li> <li>3. The Combined margin calculation is carried out as per "Tool to calculate the emission factor for electricity system" version 07. The value considered is checked by the assessment team and found correct</li> </ol> <p>The emission factor is fixed ex-ante and thus will be used for the complete 2<sup>nd</sup> renewable crediting period and for entire verification conducted under 2<sup>nd</sup> renewable crediting period.</p> <p><b>Application of Steps 1.1, 1.2, 1.3 and 1.4 confirmed that the current baseline is valid for the Second crediting period but data and parameters needs to be updated. Therefore step 2 is used</b></p> <p><b>Step 2.1: Update the current baseline</b> This step is applicable since the Steps 1.1, 1.2, 1.3 and/or 1.4 showed that the current baseline needs to be updated. As evident from the explanation provided above the baseline scenario remains unchanged.</p> <p>Updated the baseline emissions based on the latest approved version of the methodology applicable to the project activity for the subsequent crediting period, without reassessing the baseline scenario.</p> <p><b>Step 2.2: Update the data and parameters</b> The updated Data and/or parameter are followed for estimating the baseline emissions</p> <p>Hence as per AMS-I.D. version 18.0 (latest Methodology), the baseline of the project is as follows:</p> <p><i>Project activity is the installation of a Greenfield power plant, the baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system".</i></p> <p>The above selected baseline is correct and thus applicable to the project activity and in line with approved methodology</p>
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#### D.4. Estimated emission reductions or net anthropogenic removals

<b>Means of validation</b>	The emission reduction sheet, CEA database Version 15.0 (latest applicable) and PDD version 09 is checked by the assessment team.
<b>Findings</b>	No findings raised.
<b>Conclusion</b>	<p>The baseline emissions as discussed in section B.6.1 of the PDD, Version 09, will include emissions that would have occurred in the absence of the project activity. The emission reduction calculation has been done as per the AMS I.D. version 18.0.</p> <p>Since the proposed activity is a Greenfield plant, hence as stated in the para 26 of the AMS I.D. version 18.0,</p> <p><math>EG_{PJ,Y} = EG_{PJ, facility,y}</math></p>

Where:

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

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

**Baseline Emission ( $BE_y$ ):**

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

Where:

$BE_y$  = Baseline emissions in year y (t CO<sub>2</sub>/yr)

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

$EF_{grid,y}$  = Combined margin CO<sub>2</sub> emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO<sub>2</sub>/MWh)

PP has estimated the baseline energy generation considering the capacity of the project activity, yearly generation hour and plant load factor. The project activity involves installation of 3.7 MW grid connected wind power plant in the state of Maharashtra. Validation team assessed the technical specification of the promoters of the project activity, Commissioning certificate and found that installed capacity of this project activity is correct.

Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors according to the procedure prescribed in the "Tool to calculate the emission factor for an electricity system" version 07.0 which is sourced from CEA version 15.0, Govt. of India and forms the part of emission reduction calculation. The baseline emission factor calculation is checked by the validation team and found that the calculation is transparent and conservative.

$$BE_y = 6,372 \times 0.9419 = 6,002 \text{ tCO}_{2e}$$

**Project Emissions:**

As per the latest applied methodology for wind power project  $PE_y = 0$ .

**Leakage Emissions:**

As per the Methodology requirement Leakage emission is not applicable for wind power project.

**Emission Reductions:**

The project activity reduces carbon dioxide emissions through displacement of grid electricity generation with predominantly fossil fuel based power plants by renewable electricity. The emission reduction ( $ER_y$ ) due to project activity during a given year y is calculated as the difference between baseline emissions ( $BE_y$ ), project emissions ( $PE_y$ ) and leakage emission ( $LE_y$ ) as per the formulae given below:

$$ER_y = BE_y - PE_y - LE_y$$

$$ER_y = 6,002 \text{ t CO}_{2e} - 0 \text{ t CO}_{2e} - 0 \text{ t CO}_{2e}$$

$$ER_y = 6,002 \text{ (Rounded Down)}$$

## D.5. Validity of monitoring plan

<b>Means of validation</b>	Assessment team checked the monitoring practice onsite and also checked the requirement of AMS-I.D version 18 and procedure mentioned in the registered PDD
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	of 1 <sup>st</sup> CP.
<b>Findings</b>	No findings were raised in this section during validation
<b>Conclusion</b>	<p><b><u>Parameters determined ex-ante:</u></b></p> <ol style="list-style-type: none"> <li>1. <b><math>EF_{grid,OM,y} = (0.9622 \text{ tCO}_2/\text{MWh})</math></b> = Operating Margin emissions factor for grid connected power generation in year y calculated using the latest version of "Tool to calculate the emission factor for an electricity system version 07." <math>EF_{grid,OM,y}</math> is computed using the Simple Operating margin CO<sub>2</sub> emission factor. Simple Operating margin CO<sub>2</sub> emission factor is calculated from 3-year generation weighted average using data for the years 2016-2017, 2017-2018 &amp; 2018-19 CO<sub>2</sub> emissions per unit net electricity generation of all power plants serving the system, not including low-cost / must-run. This is in agreement with the guidance provided in the Tool to calculate the emission factor for an electricity system. <b>The value is considered from CEA version 15.</b> The value is fixed ex-ante for the entire duration of 2<sup>nd</sup> crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required</li> <li>2. <b><math>EF_{grid,BM,y} = (0.8811 \text{ tCO}_2/\text{MWh})</math></b> Build Margin emissions factor for grid connected power generation in year y calculated using the latest version of "Tool to calculate the emission factor version 07 for an electricity system. Build margin emission factor is the generation-weighted average emission factor of all power plants <i>m</i> during the most recent year <i>y</i> for which generation data is available. <b>The value is considered from CEA version 15.</b> The value is fixed ex-ante for the entire duration of 2<sup>nd</sup> crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required</li> <li>3. <b><math>EF_{grid,CM,y} := (0.9419 \text{ tCO}_2/\text{MWh})</math></b> Combined Margin emissions factor for grid connected power generation in year y calculated using the latest version of "Tool to calculate the emission factor for an electricity system version 07." Combined Margin is computed using the official data sources and is in-line with the guidance provided in the tool. <b>The value is considered from CEA version 15.</b> The combined margin emissions factor is calculated as follows:</li> </ol> $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$ <p>Where:</p> <p><math>EF_{grid,BM,y}</math> = Build margin CO<sub>2</sub> emission factor in year y (tCO<sub>2</sub>/MWh)  <math>EF_{grid,OM,y}</math> = Operating margin CO<sub>2</sub> emission factor in year y (tCO<sub>2</sub>/MWh)  <math>W_{OM}</math> = Weighting of operating margin emissions factor (%) = 75%  <math>W_{BM}</math> = Weighting of build margin emissions factor (%) = 25%</p> <p>The above weighing is as per "Tool to calculate the emission factor for an electricity system", version 07.0.0 for other projects (Wind in this case) and for second crediting period. The value is fixed ex-ante for the entire duration of 2<sup>nd</sup> crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required.</p> <p><b><u>Parameters determined ex-post:</u></b></p> <p>The parameters monitored ex-post involves the following:</p> <ol style="list-style-type: none"> <li>1. <math>EG_{PJ,y}</math> or <math>EG_{PJ, facility,y}</math> = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y</li> <li>2. <math>EG_{p \text{ export},y}</math> = Electricity exported to the state electricity board by the project activity; and</li> <li>3. <math>EG_{p \text{ import},y}</math> = Electricity imported from state electricity board by the project activity</li> </ol> <p>The value for the parameters will be sourced from the Joint Meter Readings/ Statements on Break-up of Net Export Units prepared by the O&amp;M Service provider. The primary source will be used for emission reduction calculation for the entire duration of 2<sup>nd</sup> CP. The practice is as per the 1<sup>st</sup> CP registered PDD and approved methodology.</p>

Since the proposed project is a Greenfield plant; hence as stated in the para 26 of AMS I.D. methodology Version 18.0,

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

Where:

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

The quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y is the difference between the measured quantities of the grid electricity export and the import.

Net electricity is referred from the monthly joint meter reading certificates/credit notes issued by MSEDCL. The power generated by WTG is stepped up by a step up transformer and fed into the 33 kV Feeder line. Power from WTGs other than the project proponent is also fed in the same 33 kV feeder line. This common feeder line culminates at the 33 kV/220 kV substation, where the joint-metering is done on monthly basis. The joint-metering is done at the 33 kV/220 kV MSEDCL substation, having shared Main meter and check meter, which is connected with WTGs other than the project proponent. The metered net electricity is apportioned among the various project developers based on the electricity metered at the respective WTG locations (or reading at the WTG-Controller). Net electricity generated will be calculated from the main meter connected to the feeder. The export and import of electricity would be measured from these onsite meters. These values would be compared with the values provided by Joint Meter Readings/ Statements on Break-up of Net Export Units prepared by the O&M Service provider, and the conservative value of the two would be considered for the emission reduction calculation.

Accepted industry standard	: National standard as described in the Power Purchase Agreement.
Measurement equipment	: Energy meters
Calibration frequency	: Annual
Accuracy of the meters	: 0.5 s
Measurement interval	: continuous measurement, monthly recording

The energy meters installed will be calibrated on annual basis at required intervals. The data will be archived electronically for a minimum of two years after the end of the crediting period or the last issuance of CERs for this project activity, whichever occurs later.

The meter accuracy class and calibration interval is under purview of state electricity board and PP does not have any control on it. DoE confirmed that apportioning procedure is under control of state electricity board and PP does not have any control on it. In the absence or delay in meter calibration —appropriate guideline will be applied to confirm the conservativeness of emission reductions.

The Invoice will be used for cross check the Net electricity value and thus is per the requirement of Methodology and registered PDD of 1<sup>st</sup> CP. The same practice is followed onsite as mentioned in registered PDD of 1<sup>st</sup> CP and thus it is acceptable to the DOE.

The export and import parameters ( $EG_{p \text{ export},y}$  and  $EG_{p \text{ import},y}$ ) are monitored using digital energy meters of 0.5s accuracy class at the sub-station of the state electricity board. Joint meter readings of the energy meters are carried out by representatives of the project promoter and representatives of the state electricity board on a monthly basis.

The apportioned metered net electricity corresponding to individual WTG is then issued separately by MSEDCL in a share certificate, and this construes the net electricity generated by individual WTG to the grid. The apportioning procedure is under control of state electricity board and PP does not have any control on it. The PP has the values of export, import and net electricity supplied to grid and the same

	<p>parameters are considered as monitoring parameters.</p> <p>The measurement results shall be cross checked with the records of invoices raised by the project proponent to the state electricity board for sale of electricity. It is reported that the data will be kept for two years after the crediting period or from last issuance. The values shall be monitored ex-post and CERs will be calculated at actual.</p> <p>The responsibilities and authorities of project management, data handling and recording, measurement methods and QA/QC procedure have been systematically established and formalized, found to be appropriate.</p>
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#### D.6. Crediting period

<b>Means of validation</b>	The crediting period is checked as per UN home page (reference number: 9887 and discussion with the client.
<b>Findings</b>	No finding raised during validation
<b>Conclusion</b>	This is 2 <sup>nd</sup> renewable crediting period and the duration is 7-year renewable (2 <sup>nd</sup> CP duration: 20/02/2021 – 19/02/2028)

#### D.7. Project participants

<b>Means of validation</b>	The project participant names were checked from UN homepage <a href="https://cdm.unfccc.int/Projects/DB/RWTUV1391526290.27/view">https://cdm.unfccc.int/Projects/DB/RWTUV1391526290.27/view</a>		
<b>Findings</b>	No findings raised		
<b>Conclusion</b>	Following are the details of PP (host country) and Annex 1 country. The same is correct and in line with PDD registered under 1st Crediting period as well as MOC obtained from UN home page. The details are true for the 2 <sup>nd</sup> Crediting period as well.		
	<b>Parties involved</b>	<b>Project participants</b>	<b>Indicate if the Party involved wishes to be considered as project participant (Yes/No)</b>
	India	M/s Arvind Cotsyn (India) Ltd (Private Entity)	No

#### D.8. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)	Validation report for PRCs	
		Version	Completion date
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <sup>2</sup>	N	NA	NA
Corrections	N	NA	NA
Change to the start date of the crediting period	N	NA	NA
Inclusion of a monitoring plan	N	NA	NA
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents	N	NA	NA
Changes to the project design	N	NA	NA
Changes specific to afforestation and reforestation project activities	N	NA	NA

<sup>2</sup> Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied (selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

## **SECTION E. Internal quality control**

As a final step for Validation for RCP assessment, the final documentation, including the Validation of RCP Report, has to undergo an internal quality control by the Technical Reviewer(s) to be approved.

Details of the Technical Reviewer(s) are provided within the Validation of RCP Report in Section B.2. and Appendix 2 for further references of knowledge and capability to conduct the quality checking.

After the Technical Review process, the final documentation may undergo a final quality checking process called Administrative Review, done by the Applus+ Certification's Project Manager and/or Technical Support.

For final approval, the final set of documents are prepared by the DOE's Technical Manager or its deputy and signed by the authorized signatory of the DOE.

In case any of the persons performing this final internal quality control approval process has acted as a part of the Assessment Team or Technical Review team, the approval can only be given by DOE's authorized personnel who are not part of those teams.

If the final set of documents has been satisfactorily approved, a request of renewal of crediting period is submitted to the UNFCCC CDM EB along with the relevant documents.

## **SECTION F. Validation opinion**

Applus+ Certification has performed a validation of the "3.7 MW Bundle Wind Power Project in Maharashtra". The validation was performed on the basis of UNFCCC criteria and host country criteria, as well as criteria, e.g. AMS-I.D version 18, given to provide for consistent project operations, monitoring and reporting.

The review of the project design documentation and the subsequent follow-up interviews have provided Applus+ Certification with sufficient evidence to determine the fulfilment of stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM and all relevant host country criteria. The project will hence be recommended by Applus+ Certification for renewal with the UNFCCC.

By displacing fossil fuel-based electricity with electricity generated from a renewable source, the project results in reductions of CO<sub>2</sub> emissions that are real, measurable and give long-term benefits to the mitigation of climate change. An analysis of the positive list of renewable project demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of annual emission reductions of 6,002 tCO<sub>2</sub>e.

The validation has been performed following the requirements of the latest version of the CDM validation and verification standard for project activities, Version 02.0 and on the basis of the contractual agreement. The single purpose of this report is its use during the renewal process as part of the CDM/UNFCCC project cycle.

## Appendix 1. Abbreviations

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction(s)
CEA	Central Electricity Authority
CL	Clarification request
CMS	Central Monitoring system
CP	Crediting period
CM	Combined Margin
CMS	Central Monitoring system
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EF	Emission Factor
ER	External Resource
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse gas(es)
GWP	Global Warming potential
IR	Internal Resource
OR	Outside resource
OEM	Original Equipment manufacturer
OM	Operating Margin
MSEDCL	Maharashtra State Electricity Distribution Company Limited
PP	Project Participant
SEL	Suzlon Energy Limited
WTG	Wind Turbine Generator



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

1. **Mr. Pankaj Kumar** has done M. Sc in Environment Management from Forest Research Institute, Dehradun and B. Sc. (Hons.) in Environment & Water Management from Magadh University, Bihar, India. He has also done Post Graduate Diploma in Environmental Law from NLSIU, Bangalore. He has more than 12 years of working experience in GHG Assessments and has participated during his career in Agencies and DOEs like MITCON, Agrinergy, Carbon Check and is empanelled with Applus+ Certification since 2015 for the performance of CDM/VCS/GS project assessments. He has extensive experience in the Renewable, Waste Management and Energy Demand Scopes of UNFCCC CDM and has done more than 100 Validations and Verifications of PAs and PoAs as Lead Auditor, Technical Expert and Technical Reviewer, mainly in Asia, Africa, USA, Asia Pacific and Americas under CDM, Verified Carbon Standard, Gold Standard & Social Carbon Standard, Brazil. He is an experienced, qualified and result oriented Environment and climate change professional having 16 yrs. of relevant experience in Climate Change (Mitigation & Adaptation), Environmental Due Diligence, Disaster Risk Reduction, Climate finance, adaptation planning, capacity building, validation and verification of GHG project. He can also provide technical support for environmental investigative, remedial projects involving air, water and soil, Waste management, EIA, Environmental Compliance, ISO 14001, OHSAS 18001, GHG accounting (ISO 14064) and Carbon foot printing.
  
2. **Mr. Simon Shen** (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD for 5 years before he joined Applus+. Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.

## Appendix 3: Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	NA	Contract of the project participant with the DOE	Contract document signed between PP and DOE	Project participant
2	NA	Technical specifications of wind power plant and other equipments	Manufacturer technical specifications	Project participant
3	NA	1st PDD version 08  PDD based on which opinion is provided- Version 09	18/03/2021  27/04/2021	Project participant
4	NA	Estimated Emission reduction calculation sheet- version 01	18/03/2021	Project participant
5	NA	AMS.I.D version 18	UNFCCC CDM web site	UNFCCC
6	NA	Ministry of Environment, Forest and Climate Change (MoEFCC): <a href="http://www.envfor.nic.in">www.envfor.nic.in</a>  UNFCCC <a href="http://www.cdm.unfccc.int">www.cdm.unfccc.int</a>  CEA: Central electricity authority <a href="http://www.cea.nic.in">www.cea.nic.in</a>	Reference link is provided.	Independent Search
7	NA	Tools/ guidelines used in the project activity: <ul style="list-style-type: none"> <li>Clarification on national and/or sectoral policies Para 27 EB 55.</li> <li>Tool to determine the remaining lifetime of the project activity in line with Annex 15 EB 50.</li> <li>Tool to calculate project or leakage CO<sub>2</sub> emissions from fossil fuel combustion, Version 3.</li> <li>Tool to calculate the emission factor for an electricity system version 07.</li> <li>Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period.” (Version 03.0.1).</li> </ul>	UNFCCC CDM website	UNFCCC
8	NA	Commission Certificate for Wind Power plant	Commissioning certificate as provided by 3 <sup>rd</sup> party	Project participant

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

Table 1. CLs from this validation

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

Table 2. CAR from this validation

CAR ID	01	Section no.	D	Date: 21/04/2021
1. Name of host country DNA is not correct. Corrective action required. 2. Weblink provided in footnote 20 is not functional. PP shall provide functional weblink.				
<b>Project participant response</b>				<b>Date: 27/04/2021</b>
1. Correction has been made. 2. Correct weblink is provided.				
<b>Documentation provided by project participant</b>				
Revised PDD				
<b>DOE assessment</b>				<b>Date: 03/05/2021</b>
1. The PP has updated name of DNA India in the revised PDD, Ver. 09 dated 27/04/2021, found to be satisfactory, hence accepted. <b>Comment closed.</b> 2. PP has now provided functional weblink in sec. D of the revised PDD, Ver. 09 dated 27/04/2021, found to be satisfactory, hence accepted. <b>Comment closed.</b>				

Table 3. FAR from this validation

FAR ID	01	Section no.	NA	Date: 21/04/2021
<b>Description of FAR</b>				
Project participants shall apply any global warming potential values that may be adopted by the CMP at CMP 16 for the period from 1 January 2021 in the monitoring reports for any emission reductions achieved on or after 1 January 2021 and update the PDD in accordance with any other requirements that may be adopted by the CMP at CMP 16 in line with EB 109, Appendix 1, para 4.				
<b>Project participant response</b>				<b>Date: DD/MM/YYYY</b>
<b>Documentation provided by project participant</b>				
<b>DOE assessment</b>				<b>Date: DD/MM/YYYY</b>

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**Document information**

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none"><li>• Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN) and version 02.0 of the “CDM project cycle procedure for project activities” (CDM-EB93-A06-PROC);</li><li>• Make editorial improvements.</li></ul>
02.0	31 October 2017	Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Renewal of crediting period Keywords: crediting period, project activities, validation report		