



**Validation report form for post-registration changes 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>	8 de Agosto
<b>Process track</b>	<input checked="" type="checkbox"/> Prior approval <input type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
<b>Version number of the validation report</b>	0 <del>43</del>
<b>Completion date of the validation report</b>	<del>3146</del> /0 <del>54</del> /2021
<b>Type(s) of PRCs</b>	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <sup>1</sup> <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents <input checked="" type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation project activities
<b>Version number of PDD to which this report applies</b>	Version: 4. <del>54</del> , Dated: <del>2146</del> /0 <del>54</del> /2021
<b>Project participants</b>	Generacion Andina S.A.C.
<b>Host Party</b>	Peru
<b>Applied methodologies and standardized baselines</b>	ACM0002 (Version 13.0.0)
<b>Mandatory sectoral scopes</b>	1
<b>Conditional sectoral scopes, if applicable</b>	N/A
<b>Name and UNFCCC reference number of the DOE</b>	E-0052: Carbon Check (India) Private Ltd.

<sup>1</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).

**Name, position and signature of the  
approver of the validation report**

Amit Anand, CEO

A handwritten signature in blue ink, appearing to read 'Amit', is written over the printed name.

**SECTION A. Executive summary**

>> Polaris Infrastructure Inc, owns the company “Generación Andina S.A.C”, which is a project participant of the project, has appointed the DOE, Carbon Check (India) Private Ltd., (CC IPL) to perform the validation of the Post Registration Changes to the CDM Programme of Activities (PoA) “8 de Agosto” (UNFCCC ref. no.: 8204).

The term “UNFCCC criteria” refers to Article 12 of the Kyoto Protocol, the CDM modalities and procedures and the subsequent decisions by the CDM Executive Board. The independent Validation by the DOE is required to confirm the post registration changes of the project activity. This report summarises the post registration changes of the project with respect to requirements of CDM VVS for PA (version 02.0) /B01/. This report contains the findings and resolutions from the validation and a validation opinion.

The purpose of the Project is to generate electricity using renewable energy sources to be supplied to Peru’s National Interconnected Electric Grid (hereafter referred to as the SEIN). The reduction of the baseline emissions results from the displacement of electricity generated by the power plants that form part of the Peruvian electricity system SEIN, which include fossil-fuel based power plants emitting CO<sub>2</sub>. The Project’s expected total installed generating capacity is 20.576 MW, with an expected annual net electricity generation of 159,442 MWh.

**Scope:**

This validation is an independent and objective review of the post registration changes in registered PDD. The scope of the validation of post registration changes is to determine whether there are proposed or actual changes to the project design of the registered CDM project activity. CC IPL also determined whether the description in the revised PDD submitted by project participants, which describe the nature and extent of the actual changes, accurately reflects the implementation, operation and monitoring of the modified project activity. The validation of post registration changes in the revised PDD /01/ were based on the following:

- (i) Approved methodology ACM0002 (version 13.0) /B02/ and the applied tools
- (ii) Revised PDD (in track change and clean mode) /01/
- (iii) CDM VVS for Project Activities (version 02.0) /B01-1/
- (iv) CDM PS for Project Activities (version 02.0) and /B01-2/
- (v) CDM PCP for Project Activities (version 02.0) /B01-3/
- (vi) Relevant decisions, guidance and clarifications of the CMP and CDM EB

**Validation methodology and process**

The validation process for post registration changes includes the following steps:

- (a) Contract with project participants and appointment of validation team and technical review team
- (b) Desk review of the revised PDD by validation team
- (c) Interview of the representative of PP and consultant by the validation team
- (d) Reporting and closure of findings (CARs/CLs/FARs) and preparation of validation report
- (e) Independent technical review of the validation report
- (f) Issuance of final validation report to contracted PP and submission to UNFCCC for approval of post registration changes as appropriate.

**Conclusion:**

In summary, the post registration changes consist of corrections, permanent changes to registered monitoring plan and changes to the project design. The validation team confirms that the post registration changes proposed for the project activity require prior approval from the Board as the proposed change falls under §241 (a) (i) of CDM PS for Project Activities (version 02.0) /B01-2/. The DOE therefore accepts the changes and notifies the EB of request for the approval of the post registration changes viz., corrections, permanent changes to registered monitoring plan and

changes to the project design of the registered Project Activity. The validation team confirms that the proposed post registration changes are in line with the applied methodology and all other applicable tools and guidance.

This report is the combined assessment opinion for all the changes that are proposed in the PDD /01/ and the request is submitted for approval by CDM EB for prior approval.

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

&gt;&gt;

**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			
						Document review	On-site inspection	Interviews	Validation findings
1.	Team Leader/ Validator/local expert	IR	Singh	Vikash Kumar	CC IPL	X	NA	X	X
2.	Trainee Assessor	IR	Suman	Priya	CC IPL	X	NA	X	X

**B.2. Technical reviewer and approver of the validation report on PRCs**

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

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

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

**C.2. On-site inspection**

No on site assessment was carried out for the validation of post registration changes for the project activity. However, telephonic and Skype based remote interviews were conducted with the project participants.

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

## C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Osorno	Alexis	Generacion Andina S.A.C	04/03/2021 (Video call on Skype)	<ul style="list-style-type: none"> <li>• <b>Proposed changes in the PDD</b> <ul style="list-style-type: none"> <li>○ <b>Corrections:</b> Discussion on the proposed corrections</li> <li>○ <b>Change in the Project design:</b> Discussion on the implemented project on nominal capacity of turbine, generator and electricity meters. Discussion on applicability and application of the applied methodology, additionality and scale of the project activity due to design change.</li> <li>○ <b>Changes in the monitoring plan:</b> Discussion on proposed changes in monitoring plan and it's compliance with the applied methodologies, the applied standardized baselines and the other applied methodological regulatory documents. Discussion on the level of accuracy and completeness of the monitoring of the project activity compared with the requirements contained in the registered monitoring plan.</li> </ul> </li> </ul>	Vikash Kumar Singh, Priya Suman
2.	Hernandez	Juan Carlos	Generacion Andina S.A.C	04/03/2021 (Video call on Skype)	<ul style="list-style-type: none"> <li>• <b>Proposed changes in the PDD</b> <ul style="list-style-type: none"> <li>○ <b>Corrections:</b> Discussion on the proposed corrections</li> <li>○ <b>Change in the Project design:</b> Discussion on the implemented project on nominal capacity of turbine, generator and electricity meters.</li> </ul> </li> </ul>	Vikash Kumar Singh, Priya Suman

					<p>Discussion on applicability and application of the applied methodology, additionality and scale of the project activity due to design change.</p> <ul style="list-style-type: none"> <li>○ <b>Changes in the monitoring plan:</b> Discussion on proposed changes in monitoring plan and it's compliance with the applied methodologies, the applied standardized baselines and the other applied methodological regulatory documents. Discussion on the level of accuracy and completeness of the monitoring of the project activity compared with the requirements contained in the registered monitoring plan.</li> </ul>	
3.	Silva	Victor	Generacion Andina S.A.C	04/03/2021 (Video call on Skype)	<ul style="list-style-type: none"> <li>• <b>Proposed changes in the PDD</b> <ul style="list-style-type: none"> <li>○ <b>Corrections:</b> Discussion on the proposed corrections</li> <li>○ <b>Change in the Project design:</b> Discussion on the implemented project on nominal capacity of turbine, generator and electricity meters. Discussion on applicability and application of the applied methodology, additionality and scale of the project activity due to design change.</li> <li>○ <b>Changes in the monitoring plan:</b> Discussion on proposed changes in monitoring plan and it's compliance with the applied methodologies, the applied standardized baselines and the other applied methodological regulatory documents. Discussion on the level of</li> </ul> </li> </ul>	Vikash Kumar Singh, Priya Suman

					accuracy and completeness of the monitoring of the project activity compared with the requirements contained in the registered monitoring plan.	
4.	Wolfgang	Brueckner	Carbonbay	04/03/2021 (Video call on Skype)	<ul style="list-style-type: none"> <li>• <b>Proposed changes in the PDD</b> <ul style="list-style-type: none"> <li>○ <b>Corrections:</b> Discussion on the proposed corrections</li> <li>○ <b>Change in the Project design:</b> Discussion on the implemented project on nominal capacity of turbine, generator and electricity meters. Discussion on applicability and application of the applied methodology, additionality and scale of the project activity due to design change.</li> <li>○ <b>Changes in the monitoring plan:</b> Discussion on proposed changes in monitoring plan and it's compliance with the applied methodologies, the applied standardized baselines and the other applied methodological regulatory documents. Discussion on the level of accuracy and completeness of the monitoring of the project activity compared with the requirements contained in the registered monitoring plan.</li> </ul> </li> </ul>	Vikash Kumar Singh, Priya Suman

#### C.4. Sampling approach

>> N/A



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

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	--	--	--
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents	--	--	--
Corrections	--	CAR 02	--
Changes to the start date of the crediting period	--		--
Inclusion of a monitoring plan	--		--
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents	--	CAR 01 CAR 03 CAR 07 CAR 08	--
Changes to the project design	CL 01 CL 02 CL 03	CAR 04 CAR 05 CAR 06 CAR 09	--
Changes specific to afforestation and reforestation project activities	--	--	--
Others (please specify)	--	--	--
<b>Total</b>	CL 03	CAR 09	--

## SECTION D. Validation findings

### D.1. Compliance with PDD form

<b>Means of validation</b>	DR, I
<b>Findings</b>	--
<b>Conclusion</b>	<p>The revised PDD /01/ has been completed using the latest available template of CDM-PDD-FORM version 11.0 /B04/ and has been submitted in both track change and clean versions /01/.</p> <p>Both the registered /B03/ and revised PDD /01/ were reviewed for the consistency of the information and it is confirmed that the information transferred from the previous template to the new template is materially the same as in the registered PDD /B03/ except the changes due to the proposed PRC.</p> <p>Few addition or deletions have been made in the revised PDD /01/ as compared to the registered PDD /B03/. These addition or deletions are primarily due to the adoption of latest template of the CDM-PDD-FORM (version 11.0) /B04/.</p> <p>This confirms to the requirements of §278 and 279 of the CDM VVS for project activities (version 02.0) /B01-1/.</p> <p>Furthermore, in accordance with §280 (a) of CDM VVS for project activities (version 02.0) /B01-1/, the validation team confirms that:</p> <p>(i) The revised PDD /01/ is compliant with the valid version of the CDM-PDD-Form /B05/ and instructions therein; and</p> <p>(ii) The information transferred to the revised PDD /01/ is materially the same as that provided in the registered PDD /B03/.</p>

### D.2. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	NA/

### D.3. Corrections

<b>Means of validation</b>	DR,I
<b>Findings</b>	CAR 02 was raised in this regard and closed successfully, please refer appendix 4

	for details								
<b>Conclusion</b>	<p>Following corrections have been made to the revised PDD /01/:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Corrections</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Editorial changes as per PDD Template version 11.0</td></tr> <tr> <td>2.</td><td>Information has been added in sections A.6. and A.7, Appendix 6 and Appendix 7.</td></tr> <tr> <td>3.</td><td>Ggeneral description of the project activity has been revised in Section A.1. and A.3. in order to justify the changes occurred during project implementation stage.</td></tr> </tbody> </table> <p>Validation team confirms that above corrections are due to the adoption of new template of PDD and changes in section A.6 and A.7 are due the fact that project activity underwent permanent changes during project implementation stage.</p> <p>Furthermore, Validation team has accepted all the proposed corrections in the revised PDD /01/ and confirms that the corrected information is an accurate reflection of actual project information and the corrected information in the revised PDD comply with the CDM Project Standard for project activities (02.0) and, corrected parameters are in accordance with the applied methodology and the monitoring plan.</p> <p>The validation took cognizance of §287, 288 and 289 of CDM VVS for project activities (version 02.0) /B01-1/.</p>	Sl. No.	Corrections	1.	Editorial changes as per PDD Template version 11.0	2.	Information has been added in sections A.6. and A.7, Appendix 6 and Appendix 7.	3.	Ggeneral description of the project activity has been revised in Section A.1. and A.3. in order to justify the changes occurred during project implementation stage.
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#### D.4. Changes to the start date of the crediting period

<b>Means of validation</b>	<del>NA</del> DR,I
<b>Findings</b>	<del>NA</del> --
<b>Conclusion</b>	In accordance with paragraph 129 of the CDM project cycle procedure for project Activities, Version 02.0 ,PP has sent an email to CDM registry on 21/05/2021 to post-pone the crediting period of CDM project for up-to one year./13/ No DOE assessment is therefore required in this case.NA

#### D.5. Inclusion of a monitoring plan

<b>Means of validation</b>	NA
<b>Findings</b>	NA
<b>Conclusion</b>	NA

#### D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

<b>Means of validation</b>	DR, I						
<b>Findings</b>	CL 03, CAR 01, CAR 03, and CAR 07 was raised in this regard and closed successfully, please refer appendix 4 for details						
<b>Conclusion</b>	<p>Following permanent changes have been made to the registered monitoring plan of the registered PoA-DD:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Permanent changes to monitoring Plan of PDD</th></tr> </thead> <tbody> <tr> <td>1.</td><td> <ul style="list-style-type: none"> <li>Review of the revised PDD revelas that total 4 meters has been set up at the power plant, one meter at the Tingo Maria substation. one meter is placed at each generator and one is used for the auxiliary consumption – all measuring at 13.8 kv. Another meter is placed at the “8 de Agosto” substation measuring after uplifting to the transmission tension of 138kv. Another meter is in place at the “Tingo Maria” substation, which does not have any significance for the project activity.</li> <li>New line diagram was introduced to the monitoring plan</li> </ul> </td></tr> <tr> <td>2.</td><td>Exclusion of Monitoring Parameter EGNueva Esperanza,h, EGEL Carmen, h and EGTingo Maria, h in Section B.7.1 in accordance with the change in monitoring plan. Amendments were applied to the “description” of parameter EG8 de Agosto,h and to the “Measurement</td></tr> </tbody> </table>	Sl. No.	Permanent changes to monitoring Plan of PDD	1.	<ul style="list-style-type: none"> <li>Review of the revised PDD revelas that total 4 meters has been set up at the power plant, one meter at the Tingo Maria substation. one meter is placed at each generator and one is used for the auxiliary consumption – all measuring at 13.8 kv. Another meter is placed at the “8 de Agosto” substation measuring after uplifting to the transmission tension of 138kv. Another meter is in place at the “Tingo Maria” substation, which does not have any significance for the project activity.</li> <li>New line diagram was introduced to the monitoring plan</li> </ul>	2.	Exclusion of Monitoring Parameter EGNueva Esperanza,h, EGEL Carmen, h and EGTingo Maria, h in Section B.7.1 in accordance with the change in monitoring plan. Amendments were applied to the “description” of parameter EG8 de Agosto,h and to the “Measurement
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		methods and procedures" EGPJ,h.
	3.	Revision of parameter EGPJ,h <b>and Cap PJ</b> in Section B.7.1
	4.	Appendix 5 has been revised. The joint reading problem as described in the registered PDD does no longer exist. The calculation sheet will reflect
	<p>Validation team has accepted all the proposed permanent changes to the monitoring plan in the revised PDD /01/ and confirms that these changes are an accurate reflection of actual project information and monitoring activity being undertaken at the project site by PP.</p> <p><u>Validation team confirms that PP has also revised monitoring frequency of the parameter "Installed capacity of the hydropower plant after the implementation of the project activity (CapPJ)" as yearly which is in compliance with the methodology ACM0002 ver.13 page 18 .</u></p> <p>In accordance with requirements of §297 of CDM VVS for PA (version 02.0) /B01-1/, the validation team confirms that these permanent changes are in compliance with the applied methodology, the applied standardized baseline, the applied methodological tools and is unlikely to lead to a reduction in the accuracy of the calculation of emission reductions.</p> <p>Furthermore, in accordance with §298 of CDM VVS for PA (version 02.0) /B01-1/, the validation team concludes that the permanent changes comply with the relevant requirements related to the permanent changes from the registered monitoring plana and applied methodology.</p>	

#### D.7. Changes to the project design

<b>Means of validation</b>									
<b>Findings</b>	CL 01, CL 02,CAR 04,CAR 05, CAR 06, and CAR 09 has been raised in this regard. Refer appendix 4 for details								
<b>Conclusion</b>	<p>The current project design involves changes compared to the project design in the registered project activity /B03/. The project design changes to the project activity are:</p> <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Changes to the project design</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Revised technical description in Section A1 and A.3. as per changes in the project design. The following changes have been implemented: Change of each generator nominal capacity to 12,930 kVA and a power factor of 0.9; the turbine capacity has been changed to 10,623 kW and the total installed capacity from 19.0 MW to 20,576 MW (combined generator capacity).. Changes in net electricity generation due to a change in the total capacity let to a change in emission reductions.</td></tr> <tr> <td>2.</td><td>Revised description of establishment of project additionality in Section B.5. in accordance with changes in financial indicators for the project.</td></tr> <tr> <td>3.</td><td>Revision in Section B.6.3 and B.6.4 due to change in EGPJ,y and Bey in accordance with the change in project design.</td></tr> </tbody> </table> <p>The actual changes in the project design as compared to the description of project design as provided in the registered PDD /B03/ have been assessed in accordance with §309 (a) of VVS for project activities (version 02.0) /B01-1/ and the validation team confirms that this change is in accordance with the §241 (b), (c) and (h) of the CDM Project Standard for Project Activities (version 02.0) /B01-2/. The validation team further confirms that this project design change does not have any adverse impact on the compliance of the monitoring plan, the level of accuracy of the monitoring activity, the applied monitoring methodology including applicable tool(s) thereby complying with §302 of CDM VVS for project activities (version 02.0) /B01-1/.</p> <p>Further in line with §309 (b) of VVS for project activities (version 02.0) /B01-1/, the Validation team based on interviews with PP and its representatives confirms that</p>	Sl. No.	Changes to the project design	1.	Revised technical description in Section A1 and A.3. as per changes in the project design. The following changes have been implemented: Change of each generator nominal capacity to 12,930 kVA and a power factor of 0.9; the turbine capacity has been changed to 10,623 kW and the total installed capacity from 19.0 MW to 20,576 MW (combined generator capacity).. Changes in net electricity generation due to a change in the total capacity let to a change in emission reductions.	2.	Revised description of establishment of project additionality in Section B.5. in accordance with changes in financial indicators for the project.	3.	Revision in Section B.6.3 and B.6.4 due to change in EGPJ,y and Bey in accordance with the change in project design.
Sl. No.	Changes to the project design								
1.	Revised technical description in Section A1 and A.3. as per changes in the project design. The following changes have been implemented: Change of each generator nominal capacity to 12,930 kVA and a power factor of 0.9; the turbine capacity has been changed to 10,623 kW and the total installed capacity from 19.0 MW to 20,576 MW (combined generator capacity).. Changes in net electricity generation due to a change in the total capacity let to a change in emission reductions.								
2.	Revised description of establishment of project additionality in Section B.5. in accordance with changes in financial indicators for the project.								
3.	Revision in Section B.6.3 and B.6.4 due to change in EGPJ,y and Bey in accordance with the change in project design.								

the changes to the project design such change of each generator nominal capacity to 12,930 kVA and a power factor of 0.9; the turbine capacity has been changed to 10,623 kW and the total installed capacity from 19.0 MW to 20,576 MW (combined generator capacity). Changes in net electricity generation due to a change in the total capacity let to a change in emission reductions. There is no way that these changes would have been known prior to the registration of the CDM project activity. Furthermore, the validation team based on the assessment of revised PDD /01/ also confirms that these changes would have no impact on the overall operation/ability of the CDM project activity to deliver emission reductions as stated in the revised PDD /01/.

Further in line with §309 (c) of VVS for project activities (version 02.0) /B01-1/, the validation team has assessed the effect of the project design change as below:

(i) **Additionality of the registered CDM project activity:**

The current project design, which has been proposed involves changes in the nominal capacity of each generator, and turbine capacity which leads to increase in total installed capacity.

“Tools for the demonstration and assessment of additionality” Version 06.0.0, in accordance with ACM0002 (version 13.0) /B02/ have been used to demonstrate the additionality of the project activity.

Step 1: Identification of alternatives to the project activity consistent with mandatory laws and regulations

Step 2: Investment analysis

Step 3: Barriers analysis

Step 4: Common practice analysis

As per the review of revised FVR, IRR calculation sheet /05/ validation team confirms that the change in project capacity is 8.80% which is found still below the benchmark IRR 12.0%;

Thus, this Project is not financially attractive without considering additional revenues from the sales of carbon credits. Considering said additional income streams the IRR of the total investment would increase to 9.81%.

Furthermore, the sensitivity analysis with the variation of +/- 10% of the selected parameters, IRR remains below the benchmark in all cases. Besides, common practice analysis considering the increase in installed capacity also shows that the project is not a common practice.

Hence the Validation team concludes that the proposed design change has no impact on the additionality of the registered project activity.

(ii) **Scale of the registered CDM project activity:**

Project installed capacity after the change is 20.576 MW (combined generator capacity). which is still under large scale project activity. Thus, the project design change does not adversely affect the scale of the project activity.

(iii) **Applicability and application of the approved baseline methodology under which the CDM project activity has been registered;**

The fulfilment of applicability conditions of the applied methodology ACM0002 (version 13.0) /B02/ are demonstrated as below:

Applicability Criteria	Justification / Assessment
The project activity is the installation, capacity addition, retrofit or replacement of a power plant/unit of one of the following types: hydro power plant/unit (either with a run-of-river reservoir or an accumulation reservoir), wind power plant/unit, geothermal power plant/unit,	Applicable  Conclusion: The project activity is the installation of a hydro power plant with a run-of-river reservoir thus, validation team confirms that the design change has

	solar power plant/unit, wave power plant/unit or tidal power plant/unit;	no impact on the fulfilment of this applicability criterion of the methodology by the project activity.
	In the case of capacity additions, retrofits or replacements: the existing plant started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion or retrofit of the plant has been undertaken between the start of this minimum historical reference period and the implementation of the project activity	Not applicable  Conclusion: The validation team confirms that design change has no impact on the fulfilment of this applicability criterion of the methodology by the project activity.
	<p>In case of hydro power plants:</p> <p>One of the following conditions must apply:</p> <ul style="list-style-type: none"> <li>• The project activity is implemented in an existing single or multiple reservoirs, with no change in the volume of any of reservoirs; or</li> <li>• The project activity is implemented in an existing single or multiple reservoirs, where the volume of any of reservoirs is increased and the power density of each reservoir, as per the definitions given in the Project Emissions section, is greater than 4 W/m<sup>2</sup>; or</li> <li>• The project activity results in new single or multiple reservoirs and the power density of each reservoir, as per the definitions given in the Project Emissions section, is greater than 4 W/m<sup>2</sup>.</li> </ul> <p>In case of hydro power plants using multiple reservoirs where the power</p> <ul style="list-style-type: none"> <li>• <i>Density of any of the reservoirs is lower than 4 W/m<sup>2</sup> all the following conditions must apply:</i></li> <li>• <i>The power density calculated for the entire project activity using equation 5 is greater than 4 W/m<sup>2</sup>;</i></li> <li>• <i>Multiple reservoirs and hydro power plants located at the same river and where are designed together to function as an integrated project that collectively constitute the generation capacity of the combined power plant;</i></li> <li>• <i>Water flow between multiple reservoirs is not used by any other hydropower unit which is not a</i></li> </ul>	<p>Applicable</p> <p>The proposed project activity results in new reservoirs and the power density of the power plant is 87,963 (19,000,000W/216 m<sup>2</sup>) W/m<sup>2</sup> greater than 4 W/m<sup>2</sup>.</p> <p>This has been assessed review of PDD and through interviews with the project participant.</p> <p>Conclusion: The design change has no impact on the fulfilment of this applicability criterion of the methodology by the project activity.</p>

	<p><i>part of the project activity;</i></p> <ul style="list-style-type: none"> <li>• <i>Total installed capacity of the power units, which are driven using water from the reservoirs with power density lower than 4 W/m<sup>2</sup>, is lower than 15 MW;</i></li> </ul> <p><i>Total installed capacity of the power units, which are driven using water from reservoirs with power density lower than 4 W/m<sup>2</sup>, is less than 10% of the total installed capacity of the project activity from multiple reservoirs.</i></p>	
	<p><i>The methodology is not applicable to the following:</i></p> <ul style="list-style-type: none"> <li>• <i>Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site;</i></li> <li>• <i>Biomass fired power plants;</i></li> <li>• <i>Hydro power plant that results in the creation of a new single reservoir or in the increase in an existing single reservoir where the power density of the power plant is less than 4 W/m<sup>2</sup>.</i></li> </ul>	<p>Not applicable</p> <p>Conclusion: The validation team confirms that design change has no impact on the fulfilment of this applicability criterion of the methodology by the project activity.</p>
	<p><i>In the case of retrofits, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, i.e. to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".</i></p>	<p>Not applicable</p> <p>Conclusion: (a) The validation team confirms that design change has no impact on the fulfilment of this applicability criterion of the methodology by the project activity.</p>
	<p>(iv) <b><u>The compliance of the monitoring plan with the applied monitoring methodology:</u></b></p> <p>There are new requirements in the monitoring plan that is specific to the changes and these changes are in compliance with applied methodology ACM0002 (version 13.0) as a result of the proposed changes in the PRC.</p> <p>The same has been assessed through review of revised PDD /01/, applied methodology /B02/. This is appropriate and deemed acceptable.</p>	
	<p>(v) <b><u>The level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan:</u></b></p> <p>The validation team based review of revised PDD /01/ and interviews with the project participant confirms that due to the project design change, there is no change in the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.</p>	

	The validation team confirms that PP has submitted the revised PDD /01/ in the latest valid applicable PDD Form /B04/ as per the requirement of §229 of PS for Project Activities (version 02.0) /B01-2/ and §278 of VVS for Project Activities (version 02.0) /B01-1/ for the applicable project design change for the project activity. The validation team also confirms that information transferred to the later valid version of the PDD form is materially the same as that in the registered PDD /B04/ in line with §279 of VVS for project activities (version 02.0) /B01-1/.
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#### D.8. Changes specific to afforestation and reforestation project activities

Means of validation	N/A
Findings	N/A
Conclusion	N/A

#### SECTION E. Internal quality control

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

#### SECTION F. Validation opinion

>> Carbon Check (India) Private Ltd. (CCIPL) has performed the validation of the post-registration changes for the registered CDM Project Activity "8 de Agosto" having UNFCCC reference number 8204. During the validation of the post-registration changes to the project activity, corrections, permanent changes to registered monitoring plan and changes to project design from registered project activity has been identified. The post registration changes (PRC) to registered project activity has been validated in line with the requirements of PCP for project activities (version 02.0) /B01-3/, Project standard for project activities (version 02.0) /B01-2/ and VVS for project activities (version 02.0) /B01-1/. CCIPL confirms that the post registration changes information in the revised PDD (version 4.54, Dated 2116/054/2021) /01/ reflects actual changes related to the registered PDD /B03/ and are as per section 8 of the Project standard for project activities (version 02.0) /B01-2/. These changes fall under the category of changes that require prior approval of the Board.

The validation was performed on the basis of rules and requirements defined by UNFCCC for the CDM project activities. The review of the revised PDD /01/, supporting documentation and subsequent follow-up actions (including interviews), have provided CCIPL with sufficient evidence to determine the fulfilment of stated criteria.

The description in the revised PDD (version 4.54, Dated 2116/054/2021) /01/ meets all relevant UNFCCC requirements for the CDM and correctly applies the selected baseline and monitoring methodology.


This report is the assessment opinion for the changes that are proposed in the revised PDD /01/ and request is submitted for acceptance of the Board in line with §130 of the PCP for project activities (version 02.0) /B01-3/.

## Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CA	Corrective Action/ Clarification Action
CER	Certified Emission Reduction
CAR	Corrective Action Request
CC IPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CL	Clarification Request
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2e</sub>	Carbon Dioxide Equivalent
DOE	Designated Operational Entity
DVR	Draft Validation Report
EB	CDM Executive Board
EF	Emission Factor
FA	Final Approval
FAR	Forward Action Request
FVR	Final Validation Report
GHG	Greenhouse gas(es)
GWh	Giga Watt Hour
GWP	Global Warming Potential
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval(s)
LE	Leakage Emissions
MoC	Modalities of Communication
MP	Monitoring Period
MR	Monitoring Report
MWh	Mega Watt Hour
OSV	On Site Visit
PE	Project Emissions
PP(s)	Project Participant(s)
PRC	Post registration change
QC/QA	Quality Control/ Quality Assurance
TA	Technical Area
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard
VT	Validation / Verification team



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


**Carbon**  
CHECK

**Carbon Check (India) Private Ltd.**

**Vikash Kumar Singh**

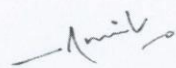
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

*For following functions:*

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

*In the following Technical Areas:*

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


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**Mr. Amit Anand**  
CEO

**Date of Approval**  
24/12/2020

**Valid Till**  
24/12/2021

**Revision History of the Document**

26/12/2014	Initial Adoption
24/12/2015	Annual Revision
20/01/2016	Interim Revision for office address change
23/12/2017	Annual Revision
24/12/2017	Annual Revision
24/12/2018	Annual Revision
24/12/2019	Annual Revision
01/03/2020	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision

<sup>1</sup> India, South Africa

CARBON CHECK (INDIA) PRIVATE LIMITED  
CIN: U74930DL2012PTC232495  
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Tel: +91 120 4373114 | URL: [www.carboncheck.co.in](http://www.carboncheck.co.in) | e-mail: [info@carboncheck.co.in](mailto:info@carboncheck.co.in)



## Carbon Check (India) Private Ltd.

### Subhendu Biswas

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

*For following functions:*

Validator ☐ Team Leader ☐ Technical reviewer ☐  
 Verifier ☐ Technical Expert ☒ Local Assessor ☐

*In the following Technical Areas:*

TA 1.1 ☒ TA 3.1 ☒ TA 5.2 ☐ TA 9.2 ☐ TA 13.2 ☐  
 TA 1.2 ☒ TA 4.1 ☒ TA 8.1 ☒ TA 10.1 ☒ TA 14.1 ☐  
 TA 2.1 ☐ TA 5.1 ☒ TA 9.1 ☒ TA 13.1 ☒

Mr. Vikash Kumar Singh  
Compliance Officer

Mr. Amit Anand  
CEO

Date of Approval  
24/12/2020

Valid Till  
24/12/2021

#### Revision History of the Document

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24/12/2017	Annual Revision
24/12/2018	Annual Revision
24/12/2019	Annual Revision
01/03/2020	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision

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Tel: +91 120 4373114 | URL: [www.carboncheck.co.in](http://www.carboncheck.co.in) | e-mail: [info@carboncheck.co.in](mailto:info@carboncheck.co.in)

### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	Generacion Andina S.A.C.	Revised Final PDD in clean and track change	Version 4.54; dated <del>2146</del> /054/2021	PP
/02/	Generacion Andina S.A.C.	Initial Revised PDD in clean and track change	Version 04; dated 22/02/2021	PP
/03/	Generacion Andina S.A.C.	ER Sheet corresponding to /01/	--	PP
/04/	Generacion Andina S.A.C.	ER Sheet corresponding to /02/	--	PP
/05/	Generacion Andina S.A.C.	IRR spreadsheet Cash Flow – 8DA update_v4	--	PP
/06/	Generacion Andina S.A.C.	<p>Evidence for the technical specifications and/or calibration requirements of the electricity meter</p> <ul style="list-style-type: none"> <li>• Certificate G1-MV Serial no: MW-1908B148-02 Calibration date: 26-Aug-2019 By schneider electric</li> <li>• Certificate G2-MV Serial no: 1908B129-02 Calibration date: 26-Aug-2019 By schneider electric</li> <li>• Certificate SAA-MV Serial no: 1908B130-02 Calibration date: 23-Aug-2019 By schneider electric</li> </ul>	--	PP
/07/	Generacion Andina S.A.C.	<p>Evidence for the technical specifications of the project equipment –photograph of the project equipments (Turbine, generator, grid interconnection point and other components of the project).</p> <ul style="list-style-type: none"> <li>• Pictures of central generation groups</li> <li>• Pictures of turbina grupo generador</li> <li>• Pictures of group generator name plate</li> </ul>	N/A	PP
/08/	Generacion Andina S.A.C.	<p>Evidence of the input arameters (Plant load factor, installed capacity and the revised project cost) used for the additionality demonstration.</p> <ul style="list-style-type: none"> <li>• Audited financial statements December 31, 2019 and December 31, 2018</li> </ul>	--	PP

/09/	Generacion Andina S.A.C.	Line diagram	--	PP
/10/	Generacion Andina S.A.C.	Evidence for the technical specifications of the electricity meter (with a precision class of 0.2 (as required by COES).  Meter specification ION8650 – Technical Description	--	PP
/11/	Generacion Andina S.A.C.	Evidence of breakdown of the project cost <ul style="list-style-type: none"> <li>Cash Flow - 8DA update_v3</li> <li>GASAC 2019 FS Audited vOct 19 2020</li> <li>Generacion Andina Assets v2019.12.31</li> </ul>	--	PP
/12/	Generacion Andina S.A.C.	Evidence of the installed capacity of turbine. <ul style="list-style-type: none"> <li>Equipment Purchase contract 8 de Agosto</li> </ul>	--	PP
<u>/13/</u>	<u>Generacion Andina S.A.C.</u>	<u>Notification email to CDM registry to post-pone the crediting period of CDM project for up-to one year.</u>	<u>21/05/2021</u>	<u>PP</u>
/B01/	UNFCCC	1. CDM Validation and Verification Standard for Project Activities 2. CDM Project Standard for Project Activities 3. CDM Project Cycle Procedure for Project Activities	Version: 02.0	Others
/B02/	UNFCCC	Applied methodology ACM0002 version 13.0	<a href="http://cdm.unfccc.int">http://cdm.unfccc.int</a>	Others
/B03/	UNFCCC	Registered PDD version 3 dated 15/10/2012	<a href="http://cdm.unfccc.int">http://cdm.unfccc.int</a>	Others
/B04/	UNFCCC	Project Design Document form (CDM-PDD-FORM) and filling instructions	Version: 11	Others

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

Table 1. CLs from this validation

CL ID	01	Section no.	D.7	Date:	17/03/2021
Description of CL					

As per the paragraph 301 of the CDM VVS for Project Activities (version 02.0) "In case of actual changes, the DOE shall, by means of an on-site inspection (where conducted in accordance with paragraph 30 or 31 above) and review of the submitted revised PDD by the project participants that describes the nature and extent of the actual changes, determine whether this description accurately reflects the implementation, operation and monitoring of the modified CDM project activity."	
During the remote inspection the name plate capacity of the two generators of the project was verified. However, the capacity of turbines were not verified due to absence of name plate. PP is requested to provide supportive evidence to verify the capacity of the turbines as per the revised PDD	
<b>Project participant response</b>	<b>Date:</b> 19/02/2021
The total installed capacity of both is 21246 kw according to the purchase contract and technical specifications (CONTRATO de Suministro de Equipos Electromecanicos) on page 24, which has been made available to the DOE.	
<b>Documentation provided by project participant</b>	
CONTRATO de Suministro de Equipos Electromecanicos	
<b>DOE assessment</b>	<b>Date:</b> 01/04/2021
PP has mentioned total installed capacity of both turbine as 21246, whereas power capacity of each turbine as mentioned in PDD is 11707 which totals into 23,414 which is inconsistent. PP is requested to clarify. CL is open	
<b>Project participant response</b>	<b>Date:</b> 06/04/2021
According to the project contract the installed capacity per turbine is 10,623 kW. Accordingly, the 11,707 has been deleted and replaced by the correct value.	
<b>Documentation provided by project participant</b>	<b>Date:</b> 06/04/2021
CONTRATO de Suministro de Equipos Electromecanicos PDD_8-de-Agosto-v4.2.	
<b>DOE assessment</b>	<b>Date:</b> 07/04/2021
Based on the review of equipment purchase contract the validation team confirms that the installed capacity per turbine is 10,623 kW which totals into total installed capacity of both turbine is 21246 kw, PP has revised the PDD accordingly.	

<b>CL ID</b>	02	<b>Section no.</b>	D.7	<b>Date:</b> 17/03/2021
<b>Description of CL</b>				
In accordance with the requirements of §309 (b) of CDM VVS for Project Activities (version 02.0), PP shall clarify the following:				
<ol style="list-style-type: none"> <li>1. when the changes occurred?</li> <li>2. reasons for these changes taking place?</li> <li>3. whether the changes would have been known prior to the registration of the CDM project activity?</li> <li>4. how the changes would impact on the overall operation/ability of the CDM project activity to deliver emission reductions or net anthropogenic removals as stated in the PDD?</li> </ol>				
<b>Project participant response</b>				<b>Date:</b> 22/03/2021

*The following clarification have been added :*

### **Point in time of changes**

All changes have been designed after the registration of the project activity and before the physical implementation of the project.

### **Reasons for the implementation of changes**

Prior to the actual construction of the hydro power plant the project owner of the project activity had changed several times. The initial project owner planned the installation of a set of three project activities with shared monitoring equipment (i.e. shared meters). This set-up led to a complex monitoring procedure as laid out in the former registered PDD. The implementing project owner has added meter equipment to make sure all power plants do have proper, calibrated exclusive meters at the sites. Furthermore, instead of three project activities, only two projects have been installed.

### **Could these changes have been known prior to the registration of the CDM project activity?**

The registration of the project activities happened significantly before the actual implementation. Furthermore, as mentioned above, the project has been implemented by a different project owner. Therefore, the changes could not have been known prior to the registration of the project activity.

### **How do the changes impact the overall operation/ability of the CDM project activity to deliver emission reductions or net anthropogenic removals as stated in the PDD?**

The project stays a run of river hydro power plant using the hydrology as used for the initial design of the project activity. The proposed changes do therefore not impact the ability of the project activity to deliver emission reductions.

#### **Documentation provided by project participant**

*PDD\_8-de-Agosto-v4.1*

#### **DOE assessment**

**Date:** 01/04/2021

Based on the review of revised PDD the validation team confirms that PP has provided information in accordance with the requirements of §309 (b) of CDM VVS for Project Activities (version 02.0)

<b>CL ID</b>	03	<b>Section no.</b>	D.6	<b>Date:</b> 11/04/2021
<b>Description of CAR</b>				
<i>For parameter EGpj,y, Clarity is needed on the mechanism to calculate the line loss which is to be used in calculation of the net power delivered to grid.</i>				
<b>Project participant response</b>				<b>Date:</b> 13/04/2021
<i>A footnote has been added to the parameter explaining the reasons for the line loss factor. For 2019 (first year of operation), the factor was determined to be 0.9823. The line losses are being determined on an annual basis by an independent service provider. The line loss factor is then submitted and accepted by COES. Any electricity dispatch will be corrected with the loss factor, which takes into account the 58.67 km transmission line.</i>				
<b>Documentation provided by project participant</b>				
<i>PDD_8-de-Agosto-v4.3</i>				
<b>DOE assessment</b>				<b>Date:</b> 13/04/2021
Based on the review of revised PDD the validation team confirms that footnote has been added to the parameter which explains the line loss factor.				
CL is closed				

**Table 2. CARs from this validation**



<b>CAR ID</b>	01	<b>Section no.</b>	D.6	<b>Date:</b> 17/03/2021
<b>Description of CAR</b>				
As per the paragraph 301 of the CDM VVS for Project Activities (version 02.0) "In case of actual changes, the DOE shall, by means of an on-site inspection (where conducted in accordance with paragraph 30 or 31 above) and review of the submitted revised PDD by the project participants that describes the nature and extent of the actual changes, determine whether this description accurately reflects the implementation, operation and monitoring of the modified CDM project activity."				
The description of the parameter EG facility, y is not consistent with the information of monitoring as revealed during the remote inspection. This should also provide a description on the factor used for the line losses. Furthermore, the mention of common busbar at 220 kv substation and metering at this point is misleading and inconsistent with the information gathered through remote interviews and review of COES website				
<b>Project participant response</b>				<b>Date:</b> 22/03/2021
Clarification has been provided to the description of EG facility,y. The loss factor has been mentioned and the common busbar has been removed as it is not reflecting the current status quo.				
<b>Documentation provided by project participant</b>				
PDD_8-de-Agosto-v4.1				
<b>DOE assessment</b>				<b>Date:</b> 01/04/2021
Review of revised PDD reveals that description of EG facility,y has been revised and it is now in lined with information of monitoring as cross checked during the remote inspection.				

<b>CAR ID</b>	02	<b>Section no.</b>	D.3	<b>Date:</b> 17/03/2021
<b>Description of CAR</b>				
As per the section A.3 (c) of CDM-PDD-FORM version 11.0 template filling guidelines section PP shall provide "The arrangement of the facilities, systems and equipment"				
As per the above requirement, the project description in section A.3 of the PDD should provide the description of the voltage at the ping electricity generation, metering point, step up voltage and further transmission for better clarity to the readers. Furthermore, since the project is already commissioned, it is expected that a date of commissioning should be indicated.				
<b>Project participant response</b>				<b>Date:</b> 22/03/2021
The requested information has been added to section A.3.				
<b>Documentation provided by project participant</b>				
PDD_8-de-Agosto-v4.1				
<b>DOE assessment</b>				<b>Date:</b> 01/04/2021
Based on the review of revised PDD the validation team confirms that section A.3 provides sufficient information on description of the voltage at the ping electricity generation, metering point, step up voltage and further transmission.				

<b>CAR ID</b>	03	<b>Section no.</b>	D.6	<b>Date:</b> 17/03/2021
<b>Description of CAR</b>				
Section B. 7 of the PDD should provide a line diagrams of the metering points of the project.				
<b>Project participant response</b>				<b>Date:</b> 23/03/2021
The line diagram was added to section B.7.3.				
<b>Documentation provided by project participant</b>				
PDD_8-de-Agosto-v4.1				
<b>DOE assessment</b>				<b>Date:</b> 01/04/2021
The validation team confirms that line diagram has been added in section B.7.3. of the revised PDD.				

<b>CAR ID</b>	04	<b>Section no.</b>	D.7	<b>Date:</b> 17/04/2021
<b>Description of CAR</b>				
During the remote interviews, the revised project cost (total) was verified based on audited balance sheet (for the group company), however the breakdown of the cost as provided in the revise IRR sheet could not be verified.				
<b>Project participant response</b>				<b>Date:</b> 23/03/2021
The breakdown as provided initially included a depreciation of a different point in time which is why it could not be verified with the audited financial statement. The numbers have now been corrected and the Total investment can be found on page 29 of the audited financial statement. The single positions mentioned are presented in the workbook Generacion Andina Assets v2019.12.31				
<b>Documentation provided by project participant</b>				
PDD_8-de-Agosto-v4.1 Cash Flow - 8DA update_v3 GASAC 2019 FS Audited vOct 19 2020 Generacion Andina Assets v2019.12.31				
<b>DOE assessment</b>				<b>Date:</b> 01/04/2021
Based on the review of supporting documents the validation team was able to verify the breakdown of the cost.				

<b>CAR ID</b>	05	<b>Section no.</b>	D.7	<b>Date:</b> 11/04/2021
<b>Description of CAR</b>				
section A.1- The projects technical details of net head of 131 mtrs and flow of 17 M3/sec does not match with the site specific conditions given in the equipment purchase contract ( section 2.1, page 8 of Equipment Purchase contract 8 de Agosto), neither the generation when 2 machines are in operation match with the capacity of 23.274 MW as given in the PDD.( section 2.3.2, page 09 of Equipment purchase contract and 4.2.1 of the same document under generation capacity)				
<b>Project participant response</b>				<b>Date:</b> 13/04/2021
The referred values of Section A.1. were corrected. The overall generator capacity has been changed from the design to the guaranteed value by the supplier as per contract page 4.2. 1.				
<b>Documentation provided by project participant</b>				
PDD_8-de-Agosto-v4.3				
<b>DOE assessment</b>				<b>Date:</b> 13/04/2021
Based on the review of revised PDD the validation team confirms that Section A.1. has been revised and the overall generator capacity has been also changed as per the Equipment purchase contract. CAR is closed				

<b>CAR ID</b>	06	<b>Section no.</b>	D.7	<b>Date:</b> 11/04/2021
<b>Description of CAR</b>				
section B.5 Table 05, clarification is requested on the generation capacity which is mentioned herein as 22.273 MW where as the same under A.3 and IRR calculation sheet is taken as 23.274 MW.				
<b>Project participant response</b>				<b>Date:</b> 13/04/2021
Table 5 has been corrected to 20,576 MW according to the guaranteed capacity as per the equipment purchase contract				
<b>Documentation provided by project participant</b>				
PDD_8-de-Agosto-v4.3				
<b>DOE assessment</b>				<b>Date:</b> 13/04/2021
Based on the review of revised PDD the validation team confirms that Table 05 of section B.5 has been revised as per the Equipment purchase contract. CAR is closed				

<b>CAR ID</b>	07	<b>Section no.</b>	D.6	<b>Date:</b> 11/04/2021
<b>Description of CAR</b>				



Section B.7.1 , for parameter EGpj,y, value of 180,420 MWh has been used, basis of the same is requested, project involves installation of 2 number francis turbines which as per technical data sheet provided at 2.3.2 of Equipment purchase contract, at 100% water availability is 10.623 MW each totalling at 21.246 MW . clarification is requested on the same	
<b>Project participant response</b>	<b>Date:</b> 13/04/2021
This value had to be corrected as the overall generation capacity was corrected. According to CDM rules the design generation capacity is based on the total generators capacity, not the turbines capacity. In this case the new and corrected value of 159,442 MWh will be used. Data basis is: Total installed capacity (20.567 MW), plant power factor (0.9), Transmission losses (1.67%) and hours per year (8,760). The calculation can be seen in cell H13, of the cash flow calculation "Cash Flow - 8DA update_v4"	
<b>Documentation provided by project participant</b>	
Cash Flow - 8DA update_v4	
<b>DOE assessment</b>	<b>Date:</b> 13/04/2021
The overall generation capacity has been revised, The calculation can be cross checked from the cell H13, of the cash flow calculation "Cash Flow - 8DA update_v4".	
Based on the above justification, CAR is closed	

<b>CAR ID</b>	08	<b>Section no.</b>		<b>Date:</b> 11/04/2021
<b>Description of CAR</b>				
Section B.6.3 , The project involves the net power generation to be calculated from 2 gross generation meters at 2 generator output and 1 No. auxiliary power consumption and adjustment is made for the line loss in transmission of power to the grid. The same is not reflected in the algorithm as given in the PDD. the same to revised to reflect the deduction of net power delivered to the grid for the project.				
<b>Project participant response</b>				<b>Date:</b> 13/04/2021
An explanation how meter readings are being corrected with an annual line loss factor has been added to section B.6.3.				
<b>Documentation provided by project participant</b>				
PDD_8-de-Agosto-v4.3				
<b>DOE assessment</b>				<b>Date:</b> 13/04/2021
CME has added an explanation in section B.6.3. of the revised PDD regarding how meter readings are being corrected with an annual line loss factor.				
CAR is closed				

Table 3. FARs from this validation

<b>FAR ID</b>	xx	<b>Section no.</b>		<b>Date:</b> DD/MM/YYYY
<b>Description of FAR</b>				
<b>Project participant response</b>				<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by project participant</b>				
<b>DOE assessment</b>				<b>Date:</b> DD/MM/YYYY

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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);</li><li>• Make editorial improvements.</li></ul>
02.0	31 October 2017	Revision to align with the requirements in 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: Registration Keywords: post-registration change, project activities, validation report		