




## Validation report form for post-registration changes for component project activities

(Version 02.0)

*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 component project activity (CPA)</b>	Title: CPA3_Pa Chien Hydropower Project Reference Number: 6810-P1-0002-CP1
<b>Version number of the validation report</b>	1.1
<b>Completion date of the validation report</b>	25/03/2021
<b>Version number of PoA-DD and CPA-DD applicable to this validation report</b>	PoA-DD: v.09 CPA-DD: v.07
<b>Title and UNFCCC ref. no. of the registered PoA into which the CPA is included</b>	Title: Vietnam Renewable Energy Development Program (REDP) Reference Number: 6810
<b>Type(s) of CPA PRCs</b>	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of 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 type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation activities
<b>Coordinating/managing entity (CME)</b>	Ministry of Industry and Trade of Viet Nam (MOIT)
<b>Host Parties</b>	Viet Nam
<b>Applied methodologies and standardized baselines</b>	Methodology: ACM0002 ver. 13.0.0: Consolidated baseline methodology for grid-connected electricity generation from renewable sources Standardised Baselines: NA
<b>Mandatory sectoral scopes</b>	1
<b>Conditional sectoral scopes, if applicable</b>	-
<b>Name and UNFCCC reference number of the DOE</b>	Name: TÜV NORD CERT GmbH (TÜV NORD) Ref. No.: E-0022
<b>Name, position and signature of the approver of the validation report</b>	 Kunal Rami Final Approval

**SECTION A. Executive summary**

The Ministry of Industry and Trade of Viet Nam (MOIT) has commissioned the TÜV NORD JI/CDM Certification Program (CP) to assess post registration changes of the CPA (UNFCCC Reference: 6810-P1-0002-CP1)

**“CPA3\_Pa Chien Hydropower Project”**

The appropriateness of the proposed post registration changes at CPA level is assessed in this report.

Essential data of the project is presented in the following Table 1.

**Table 1:** Project Characteristics

Topic	CPA Details	
UNFCCC number	6810-P1-0002-CP1	
Title	CPA3_Pa Chien Hydropower Project	
Host Country	Viet Nam	
Region:	Son La Province	
Project location address:	Chieng San commune, Muong La district	
Latitude:	PH: 21.476° N	Dam: 21.475° N
Longitude:	PH: 104.072° E	Dam: 104.080° E

CPA3 is Pa Chien HPP consists of 2 units of 11 MW for each generator with a total installed capacity of 22 MW. The expected annual electricity for export to the Vietnam national grid is 81,923 MWh.

The key parameters are in table below:

**Table A-2.2:** Technical data of the component project activity

Parameter	Unit	Value
<b>Turbine</b>		
Manufacturer	-	Fujian Nandian Co. Ltd
Type	-	HLA743-LJ-190
Rated capacity	MW	11.540 each
No of Units	-	02
<b>Generator</b>		
Manufacturer		Fujian Nandian Co. Ltd
Type		SF11-20/3900
Rated Capacity	MW	11 each
Rated Voltage	kV	6.3
Nominal Power Factor	cosφ	0.8
No. of units	-	2

For a detailed project description please refer to the registered CPA-DD

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

On the basis of a competence analysis and individual availabilities an assessment team, consistent of one team leader and team leader is also the team member, were appointed. Furthermore, also the personnel for the technical review and the final approval were determined.

The list of involved personnel, the tasks assigned and the qualification status are summarized in the following table below.

**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/Technical Expert	EI	Cheong	Chun Yuen (Robert)	TUV NORD Malaysia	x	x	x	x

**B.2. Technical reviewer and approver of the validation report on CPA 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	EI	Lubanga	David	-
2	Approver	IR	Winter	Stefan	TN CERT GmbH
3	Approver*	IR	Rami	Kunal	TN CERT GmbH
*as of 25.03.2021					

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

The assessment of post registration changes consisted of the following steps:

- Appointment of team members and technical reviewers
- A desk review of the registered and revised PoA-DD, which includes the generic CPA-DD, CPA3 CPA-DD submitted by the client and additional supporting documents
- Background investigation and follow-up interviews with personnel of the project developer
- Resolution of corrective actions (CARs / CLs) (if any)
- Final reporting
- Technical review
- Final approval.

The registered as well as the revised PoA-DD and CPA-DD and supporting background documents related to the project design and the post registration changes were reviewed.

As far as required the assessment team used additional documentation by third parties like host party legislation, technical reports referring to the project design or to the basic conditions and technical data.

A list all documents reviewed or referenced during this validation is presented in Appendix 3

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

Duration of on-site inspection:				
No.	Activity performed on-site	Site location	Date	Team member
1.	NA	NA		NA

**C.3. Interviews**

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

**C.4. Clarification requests, corrective action requests and forward action requests raised**

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with CPA-DD form	0	0	0
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines	0	0	0
Corrections	0	0	0
Changes to the start date of the crediting period	0	0	0
Inclusion of monitoring plan	0	0	0
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools	0	0	0
Changes to the project design	0	0	0
Changes specific to afforestation and reforestation project activities	0	0	0
Others (please specify)	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>

**SECTION D. Validation findings****D.1. Compliance with CPA-DD form**

<b>Means of validation</b>	<p>The project participants used a later version of the CPA-DD form for the revised CPA-DD than the version of the CPA-DD form of the registered CPA-DD. By means of checking updated CPA-DD with the latest applicable and available CPA-DD PDD template form the validation team can confirm that the information transferred to the later version of the CPA-DD form is materially the same as that in the registered CPA-DD besides those changes in track change and assessed under this report.</p> <p>Further it has been checked whether the latest instructions for filling out the CPA-DD template have been followed. Every section has been checked against the respective guidance.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /CPADDT/</li> <li>• /CPA-DD/</li> <li>• /unfccc/</li> </ul>
<b>Findings</b>	-
<b>Conclusion</b>	The updated CPA-DD both in tracked-change and clean version is in line with the latest applicable CPA-DD form. The validation team can conclude that the information transferred to the later valid version of the form is materially the same as that in the included CPA-DD.

**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>	
<b>Conclusion</b>	

## D.3. Corrections

<b>Means of validation</b>	<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the start date of the change	01/01/2019	<b>End Date:</b> Please provide the end date of the change, if applicable	n.a
	<b>Description:</b> Please give a detailed description of the change(s)	Section A.5 Parties and CPA implementers updated to describe the addition Annex 1 parties and CPA implementers in accordance to the details at UNFCCC project page.		
	<b>Assessment of post registration change – Corrections</b>			
	<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.	The addition of the Annex 1 parties and CPA implementers does not has any impact that will lead to reduction in accuracy to the ER calculation.		
	<b>Conservative-ness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.	The addition of the Annex 1 parties and CPA implementers does not has any impact to the ERs. Therefore, no overestimate of the ERs.		
	<b>Appendix 2 PS:</b> Check if the changes fall under one of the scenarios of Appendix 2 of the PS for PoA.	As per PoA-PS Appendix 3 §1 A request for approval of a post-registration change may be suitable to be submitted under the issuance track referred to in paragraph 227 of this procedure (a) Any corrections to project information ( as per footnote 1) of a registered clean development mechanism (CDM) programme of activities (PoA) that do not affect the design of the PoA		
<b>Findings</b>	-			
<b>Conclusion</b>	Based on the above the corrections to the registered CPA-DD are in accordance with applicable validation requirements related to the corrections in the VVS for PoA.			
	<b>Revised PoA DD and/or CPA DD</b>			
	<b>Rev. of PoA DD and/or CPA DD:</b> Check whether the changes have been fully addressed in a revised PoA DD and/or CPA DD.	<input checked="" type="checkbox"/>	The changes have correctly been reflected in the revised CPA DD.	
		<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).	
		<input checked="" type="checkbox"/>	The revised for CPA DD has been forwarded in (i) track-change and (ii) clean version.	
	<b>Prior Approval</b>			
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval	
		<input checked="" type="checkbox"/>	The post registration change does not require prior approval	

## D.4. Changes to the start date of the crediting period

<b>Means of validation</b>	<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the registered start date of the CP.	DD/MM/YYYY	<b>Revised Start Date:</b> Please provide the proposed revised start date of the CP	DD/MM/YYYY

	<b>Description:</b> Please give a detailed description /reasoning of the requested revision of CP starting date:		N/A
	<b>LDC:</b> Please check if the host country is an LDC. In case of LDCs the timeframes of the below defined categories are to be doubled.	<input type="checkbox"/>	The host country is a LDC
		<input type="checkbox"/>	The host country is <b>not</b> a LDC
	<b>Categories:</b> Please check under which category - as defined below – the requested changes fall. In case of LDCs the timeframes are to be doubled.	<input type="checkbox"/>	Category A: $> \pm 2$ a
		<input type="checkbox"/>	Category B: $< \pm 1$ a; not before registration date
		<input type="checkbox"/>	Category C: $(SD_{old} \pm 1 \text{ a}) \leq SD_{new} \leq (SD_{old} \pm 2 \text{ a})$
	<b>Assessment of post registration change</b>		
	<b>Cat. A: <math>&gt; \pm 2</math> a</b> Changes of start date of more than 2 years (4 years for LDCs) are not allowed as per the PS.	<input type="checkbox"/>	The change is a cat. A case. The change of the CP start date as requested by the PP is not allowed as per the PS. Thus a corresponding CAR has been raised.
	<b>Cat. B: <math>&lt; \pm 1</math> a</b> Prior notification is not required if changes of less than 1 year are requested. The CP start date shall not be earlier than the date of the project registration.	<input type="checkbox"/>	The change is a cat. B case. The proposed new CP start date differs less than $\pm 1$ year (2 years in case of LDCs) from the registered CP start date. Furthermore it is confirmed that the proposed new CP start date is not before the registration date of the PA. Thus a prior approval is not required.
	<b>Cat. B: <math>\pm 1 \text{ a} &lt; SD &lt; \pm 2 \text{ a}</math></b> Check whether the project falls under this category. If yes prior approval is required. The assessment team shall assess on the basis of a demonstration by the PPs whether the conservativeness of the baseline is not affected by changes that have occurred in-between. Further it has to be assessed, whether substantive progress has been made by the PPs to start the project activity.	<input type="checkbox"/>	The change is a cat. C case.
<input type="checkbox"/>		The PPs have provided the assessment team with a sufficient demonstration regarding (i) potential effects on the baseline and (ii) progress made to start the project.	
<input type="checkbox"/>		On the basis of a detailed analysis of the PP's demonstration as well as background investigation (incl. on-site inspection) the assessment team confirms that no changes have occurred to the PA which would result in a less conservative baseline. This assessment is based on the following considerations:	
	<input type="checkbox"/>	On the basis of a detailed analysis of the PP's demonstration as well as background investigation (incl. on-site inspection) the assessment team confirms that substantive progress has been made by the PPs to start the PA. This assessment is based on the following considerations:	
<b>Findings</b>	N/A		
<b>Conclusion</b>	Based on the assessment above the changes to the start date of the crediting period are in accordance with applicable validation requirements related to the changes to the start date of the crediting period in the VVS for PoA.		
	<b>Revised PoA DD and/or CPA DD</b>		
	<b>Rev. of PoA DD and/or CPA DD:</b> Check whether the changes have been	<input type="checkbox"/>	The changes have correctly been reflected in the revised PoA DD and/or CPA DD.
	<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).	

	fully addressed in a revised PoA DD and/or CPA DD.	<input type="checkbox"/>	The revised PoA DD and/or CPA DD has been forwarded in (i) track-change and (ii) clean version.
	<b>Prior Approval</b>		
	<b>Prior approval:</b>	<input type="checkbox"/>	The post registration change requires prior approval
	Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change does not require prior approval

## D.5. Inclusion of monitoring plan

<b>Means of validation</b>	<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the start date of the change	DD/MM/YYYY	<b>End Date:</b> Please provide the end date of the change, if applicable	DD/MM/YYYY
	<b>Description:</b> Please give a detailed description of the change(s)	N/A		
	<b>Assessment of post registration change – Inclusion of a MP</b>			
	<b>MM compliance:</b> Please check in case of changes to the registered MP, whether they are in compliance with the MM.			
	<b>Later version of MM:</b> Please check in cases where compliance with a later version of the MM is demonstrated that the conservativeness of the monitoring and verification is not affected.			
	<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.			
	<b>Conservative-ness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.			
	<b>Appendix 2 PS:</b> Check if the changes fall under one of the scenarios of Appendix 2 of the PS for PoA.			
	<b>Findings</b>			
<b>Conclusion</b>	Based on the above stated the inclusion of a monitoring plan to the registered project activity is in accordance with applicable validation requirements related to the inclusion of a monitoring plan to a registered project activity in the VVS for PoA.			
	<b>Revised PoA DD and/or CPA DD</b>			

	<b>Rev. of PoA DD and/or CPA DD:</b> Check whether the changes have been fully addressed in a revised PoA DD and/or CPA DD.	<input type="checkbox"/>	The changes have correctly been reflected in the revised PoA DD and/or CPA DD.
		<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).
		<input type="checkbox"/>	The revised PoA DD and/or CPA DD has been forwarded in (i) track-change and (ii) clean version.
	<b>Prior Approval</b>		
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval
		<input type="checkbox"/>	The post registration change does not require prior approval

**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>	Type of change(s):	<input checked="" type="checkbox"/>	<i>Permanent Change(s) to the registered Monitoring Plan</i>	
		<input type="checkbox"/>	<i>Permanent permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents</i>	
	<b>Description of post registration change</b>			
	<b>Start Date:</b> Please provide the start date of the change	01/01/2019	<b>End Date:</b> Please provide the end date of the change, if applicable	n.a.
	<b>Description:</b> Please give a detailed description of the change(s)	<p>The calibration frequency for the main and back-up meters is once every year according to the PPA signed in May 2013 and changed from 1 year to 2 years in accordance with Circular No. 23/2013/TT-BKHCN dated 26/09/2013 issued by the Ministry of Science and Technology during the monitoring period. /PPA/C232013/</p> <p>From 01/01/2020 onwards, the meters will be calibrated once every 3 years in accordance with the Circular No. 07/2019/TT-BKHCN dated 26/07/2019 issued by the Vietnamese Ministry of Science and Technology</p> <p>The change of the calibration frequency from 1 year to 2 years is described in Circular No. 23/2013/TT-BKHCN dated 26/09/2013. /C232013/</p> <p>Although this Circular took effect as of 15/01/2013, the grid company may request specific power plants to calibrate meters more often than legal requirements. In this aspect, calibration was conducted annually until 2018. The CPA implementer change the calibration frequency once in 2 years to comply the national requirements.</p> <p>The calibration frequency for further change from 2 years to 3 years as from 01/01/2020 is described in Circular No. 07/2019/TT-BKHCN, dated 26/07/2019 issued by the Ministry of Science and Technology and Electricity of Vietnam – Northern Power Corporation letter No. 2791/EVNNPC-KD dated 05/06/2020 requesting all IPPs having signed PPAs with Northern Power Corporation to sign an additional appendix to PPAs for change of frequency of meter calibration; /C072019/EVN/</p> <p>In addition, calibration will be carried out by the grid company or by a certified company appointed by the grid company according to the procedures and cycles as stipulated in the Decision No. 25/2007/QD-BKHCN dated 05 October 2007 by the Ministry of Science and Technology or any specific</p>		



		<p>regulations applicable standard of DLVN 39:2012, DLVN 39:2019 or any future changes to the standard. /DLVN/</p> <p>The PPA and circular have been reviewed in detail and verified to confirm the change of calibration frequency from 1 year to 2 years until 31/12/2019 and the new circular for the change to 3 years with effect from 01/01/2020. /PPA/C232013/C 07 20 19/</p> <p>The change of the calibration frequency is beyond the control of the CPA implementer and is due to the host country national regulations requirements.</p> <p>Therefore, the CPA implementer has to comply the revised national regulations requirements.</p> <p>In addition, there are some related editorial changes that do not impact the CPA.</p>
	<b>Assessment of post registration change – Permanent changes to the registered MP or permanent deviation of monitoring from the MM</b>	
	<b>MM compliance:</b> Please check in case of changes to the registered MP, whether they are in compliance with the MM.	The change of the calibration frequency has no impact and does not effect on the monitoring parameter. Therefore, still in accordance to the applied MM.
	<b>Later version of MM:</b> Please check in cases where compliance with a later version of the MM is demonstrated that the conservativeness of the monitoring and verification is not affected.	The change does not refer to a later version of the MM.
	<b>Accuracy:</b> Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.	<p>The change of the calibration frequency is beyond the CPA implementer since it is the host country regulations requirements.</p> <p>In the event when there is any delay in calibration or error found during calibration, the meter accuracy or the error found during calibration will be applied as MPE to the electricity generated as conservative approach for the period of the delay in calibration.</p> <p>The calibration report was reviewed and result did not show a deviation beyond the meter accuracy.</p> <p>Similarly it is expected that there will be no impact to future ERs.</p>
	<b>Conservative-ness:</b> Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.	<p>The change of the calibration frequency is beyond the CPA implementer since it is the host country regulations requirements.</p> <p>In the event there is any delay in calibration or error found during calibration, the meter accuracy or the error found during calibration will be applied as MPE to the electricity generated as conservative approach for the period of the delay in calibration.</p> <p>In this aspect the ER will not be overestimated.</p>
<b>Appendix 2 PoA-PS:</b> Check if the changes fall under one of the scenarios of appendix 2 of the PoA-PS.	As per PoA-PS §227 post-registration changes to an included CPA do not require approval by the Board, but such changes shall be notified to the secretariat as referred to in paragraph 250.	
<b>Findings</b>	-	

<b>Conclusion</b>	Based on the above the temporary deviation(s) from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline are in accordance with applicable validation requirements related to the temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline in the VVS.		
	<b>Revised CPA-DD</b>		
	<b>Rev. of CPA-DD:</b> Check whether the changes have been fully addressed in a revised CPA-DD.	<input checked="" type="checkbox"/>	The changes have correctly been reflected in the revised CPA-DD.
		<input type="checkbox"/>	A revision of the CPA-DD is not required (in case of temp. changes).
		<input checked="" type="checkbox"/>	The revised CPA-DD has been forwarded in (i) track-change and (ii) clean version.
<b>Prior Approval</b>			
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input checked="" type="checkbox"/>	In accordance with PoA-PS §227 post-registration changes to an included CPA <b>do not</b> require approval by the Board, but such changes shall be notified to the secretariat as referred to in paragraph 250.

## D.7. Changes to the project design

<b>Means of validation</b>	Type of change(s):	<input type="checkbox"/>	Changes to the programme design		
		<input type="checkbox"/>	Changes to the project design		
	<b>Description of post registration change</b>				
	<b>Start Date:</b> Please provide the start date of the change	DD/MM/YYYY		<b>End Date:</b> Please provide the end date of the change, if applicable	DD/MM/YYYY
	<b>Description:</b> Please give a detailed description of the change(s)	n.a.			
	<b>Applicability and application of the Approved Baseline Methodology</b>				
	<b>Description:</b> Please give a detailed description on how the changes affect the applicability and application of the approved Baseline Methodology. Check if the actual changes would adversely affect the conclusions during validation.				
	<b>Additionality assessment</b>				
	<b>Description:</b> Please give a detailed description re-assessment of additionality, Check whether the actual changes would adversely affect the conclusions during validation. If required please make use of the assessment tables in the annex.				
	<b>Scale of the Project activity</b>				

	<b>Description:</b> Please give a detailed regarding the effect of the changes on the scale of the PoA (i.e. LSC or SSC).		
	<b>Revised Specific CPA-DDs</b>		
	<b>Rev. of Specific CPA DDs:</b> Check whether the changes have been fully addressed in a revised PoA DD. In this context pl. refer to <ul style="list-style-type: none"> <li>- Changes to the project boundary and GHG Sources</li> <li>- Changes to the baseline scenario.</li> <li>- Changes to the estimation of emission reductions of a generic CPA</li> <li>- Effects with regards to compliance with the MP and level of accuracy and completeness of monitoring.</li> </ul>	<input type="checkbox"/> <p>The change has been addressed in relevant sections of the revised CPA-DD.</p> <p>The proposed change has no impact to the baseline scenario and remains the same during validation.</p> <p>The proposed change has no impact to the monitoring plan, level of accuracy and completeness of monitoring for emission reduction calculations.</p> <p>Therefore para 1 (d) of Appendix 2 of PoA PS 02.0 does not apply, prior approval is required.</p>	
<b>Findings</b>			
<b>Conclusion</b>			
	<b>Traceability:</b> Check if the PPs have provided a revised PoA DD and/or CPA DD in both clean and track-change version.	<input type="checkbox"/>	The revised CPA DD has been forwarded in (i) track-change and (ii) clean version.
	<b>Prior approval:</b> Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval.
		<input type="checkbox"/>	The post registration change does not require prior approval

#### D.8. Changes specific to afforestation and reforestation activities

Means of validation	N/A
Findings	
Conclusion	

#### SECTION E. Internal quality control

Before submission of the final assessment report a technical review is carried out. The technical reviewer is a competent GHG auditor being appointed for the scope this project falls under. The technical reviewer is not considered to be part of the verification team and thus not involved in the decision making process up to the technical review.

As a result of the technical review process the assessment opinion as prepared by the validation team leader may be confirmed or revised. Furthermore, reporting improvements might be achieved

## SECTION F. Validation opinion

The below listed changes have occurred after the registration of the CPA.

<i>Type of Change occurred</i>	<i>Total No. of changes</i>	<i>No. of changes which require prior approval</i>
<input type="checkbox"/> Temporary deviations from the MP	-	-
<input type="checkbox"/> Temporary deviations from the MM	-	-
<input checked="" type="checkbox"/> Corrections that do not affect the project	1	-
<input type="checkbox"/> Change to the start date of the crediting p.	-	-
<input checked="" type="checkbox"/> Permanent changes from the MP	1	1
<input type="checkbox"/> Permanent changes from the MM	-	-
<input type="checkbox"/> Design changes to the programmed or project	-	-
<input type="checkbox"/> Change of coordinating/managing entity	-	-
<input type="checkbox"/> Inclusion of monitoring plan	-	-
<input type="checkbox"/> Changes specific to afforestation and reforestation activities	-	-

None of the changes requires prior approval of the Board as in accordance with PoA-PS §227 post-registration changes to an included CPA do not require approval by the Board, but such changes shall be notified to the secretariat as referred to in paragraph 250.

Puchong, 17/03/2021





Cheong, Chun Yuen (Robert)  
TÜV NORD JI/CDM CP  
Assessment Team Leader

## Appendix 1. Abbreviations

Abbreviations	Full texts
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO <sub>2</sub>	Carbon dioxide
CO <sub>2e</sub>	Carbon dioxide equivalent
CME	Coordinating Managing Entity
CP	Certification Program
CPA	Component Project Activities
DNA	Designated National Authority
EB	CDM Executive Board
ER	Emission Reduction
EVN	Electricity Viet Nam
FAR	Forward Action Request
GHG	Greenhouse gas(es)
MOST	Ministry of Science and Technology
MP	Monitoring Plan
MR	Monitoring Report
PA	Project activity
PCP	Project Cycle Procedure
PDD	Project Design Document
PoA	Programme of Activities
PP	Project Participant
PRC	Post Registration Changes
PS	Project Standard
QC/QA	Quality control/Quality assurance
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VT	Validation Team/Verification Team
VVS	Validation and Verification Standard
XLS	Emission Reduction Calculation Spread Sheet

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

		
<b>Statement of Competence</b> <small>Appointment and authorization according to the procedures of the TÜV NORD JRCOM Certification Program</small>		
<b>Mr. Robert Cheong</b>		
SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2021-04-01
VCS	Senior Assessor	2021-04-01
<small>Authorization status for technical areas within sectoral scopes:</small>		
CODE	TECHNICAL AREA	
1.2	Renewables	
3.1	Energy demand	
13.1	Solid waste and wastewater	
13.2	Manure	
<small>128 - Rev. 9, Date: 2018-03-19</small>		
<small>128_S01-VASB-F20_2018-03-19_rev9.doc</small>		

		
<b>Statement of Competence</b> <small>Appointment and authorization according to the procedures of the TÜV NORD JRCOM Certification Program</small>		
<b>Mr. David Lubanga</b>		
SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification) Technical Reviewer	2018-10-20
VCS / ISO 14064-2	Lead Assessor Technical Reviewer	2018-10-20
<small>Authorization status for technical areas within sectoral scopes:</small>		
CODE	TECHNICAL AREA	
1.2	Renewables	
3.1	Energy demand	
<small>251 - Rev. 5, Date: 2017-12-01</small>		
<small>251_S01-VASB-F20_2017-12-01_rev5.doc</small>		

## Appendix 3. Documents reviewed or referenced

No.	Author	Reference	Title	References to the document	Provider
1	UNFCCC	/ACM2/	Applied large scale methodology ACM0002 ver. 13.0.0, "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"	<a href="https://cdm.unfccc.int/UserManagement/FileStorage/DYPFI935XBG274NWH6O8CM1KEZR0VU">https://cdm.unfccc.int/UserManagement/FileStorage/DYPFI935XBG274NWH6O8CM1KEZR0VU</a>	Other
2	DOE	/CPM/	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)		Other
3	UNFCCC	/GT/	Glossary "CDM terms" (version 10.0)	<a href="https://cdm.unfccc.int/filestorage/ex/t/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fD">https://cdm.unfccc.int/filestorage/ex/t/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fD</a>	Other

No.	Author	Reference	Title	References to the document	Provider
				<a href="#">CW9A3vJwR03kQQh4sblYU</a>	
4	IPCC	<b>/IPCC/</b>	<ul style="list-style-type: none"> <li>1996 IPCC Guidelines for National Greenhouse Gas Inventories: work book</li> <li>2006 IPCC Guidelines for National Greenhouse Gas Inventories: work book</li> </ul>	<a href="http://www.ipcc-nggip.iges.or.jp">www.ipcc-nggip.iges.or.jp</a>	Other
5	UNFCCC	<b>/KP/</b>	Kyoto Protocol (1997)	<a href="http://unfccc.int/kyoto_protocol/items/2830.php">http://unfccc.int/kyoto_protocol/items/2830.php</a>	Other
6	UNFCCC	<b>/MA/</b>	Decision 3/CMP.1 (Marrakesh – Accords)	<a href="http://cdm.unfccc.int/Reference/CO2PMOP/index.html">http://cdm.unfccc.int/Reference/CO2PMOP/index.html</a>	Other
7	UNFCCC	<b>/CPADDT/</b>	Component project activity design document form (Version 09.0)	<a href="http://cdm.unfccc.int/Reference/PDs_Forms/index.html#reg">http://cdm.unfccc.int/Reference/PDs_Forms/index.html#reg</a>	Other
8	UNFCCC	<b>/PS/</b>	CDM project standard for programmes of activities (Version 02.0)	<a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Other
9	UNFCCC	<b>/TL/</b>	<ul style="list-style-type: none"> <li>Tool to calculate project or leakage CO<sub>2</sub> emissions from fossil fuel combustion Version 2</li> <li>Tool to calculate the emission factor for an electricity system Version 4.0</li> </ul>	<a href="http://cdm.unfccc.int/Reference/tools/index.html">http://cdm.unfccc.int/Reference/tools/index.html</a>	Other
10	UNFCCC	<b>/VVS/</b>	CDM Validation and Verification Standard for programme of activities (Version 02.0)	<a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Other
11	UNFCCC	<b>/PoA-DD/</b>	<ul style="list-style-type: none"> <li>Registered Programme design document form for CDM programmes of activities: “Vietnam Renewable Energy Development Program (REDP)” version 07, dated 08/05/2013</li> <li>Revised Programme design document form for CDM programmes of activities: “Vietnam Renewable Energy Development Program (REDP)” version 09, dated 02/07/2015</li> </ul>	<a href="https://cdm.unfccc.int/ProgrammeOfActivities/poadb/06901LAWYS37INVEB5RZHM CU4KJFPD/view">https://cdm.unfccc.int/ProgrammeOfActivities/poadb/06901LAWYS37INVEB5RZHM CU4KJFPD/view</a>	Other
12	UNFCCC	<b>/CPA-DD/</b>	<ul style="list-style-type: none"> <li>Registered CPA-DD for CPA3_Pa Chien Hydropower Project version 06, dated 21/04/2014</li> <li>Revised CPA-DD for CPA3_Pa Chien Hydropower Project version 07 dated 14/12/2020</li> </ul>	<a href="https://cdm.unfccc.int/ProgrammeOfActivities/poadb/06901LAWYS37INVEB5RZHM CU4KJFPD/view">https://cdm.unfccc.int/ProgrammeOfActivities/poadb/06901LAWYS37INVEB5RZHM CU4KJFPD/view</a>	Other
13	UNFCCC	<b>/PRC/</b>	<ul style="list-style-type: none"> <li>Post registration changes for CDM PoA project: “Vietnam Renewable Energy Development</li> </ul>	<a href="https://cdm.unfccc.int/PoAIssuance/iss_db/poais761634785/view">https://cdm.unfccc.int/PoAIssuance/iss_db/poais761634785/view</a>	Other

No.	Author	Reference	Title	References to the document	Provider
			Program (REDP)" version 1.0 dated 20/09/2014		
14	PP	/VAL/	<ul style="list-style-type: none"> <li>Validation Report for CDM PoA project "Vietnam Renewable Energy Development Program (REDP)" version 04, dated 08/05/2013</li> <li>Validation Report for "CPA3_Pa Chien Hydropower Project version 02 dated 06/05/2014</li> </ul>	<a href="https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/06901LAWYS37INVEB5RZHM CU4KJFPD/view">https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/06901LAWYS37INVEB5RZHM CU4KJFPD/view</a>	Other
15	PP	/FA/	CPA3_Pa Chien Hydropower Project Financial Analysis version 02 dated 15/10/2013		PP
16	PP	/ER/	CPA3_Pa Chien ER calculation version 02 dated 15/10/2013		PP
17	PP	/PPA/	CPA2 Pa Chien HPP Power Purchase Agreement signed with grid company dated May 2013		PP
18	MOST	/C232013/	Circular No. 23/2013/TT-BKHCN dated 26/09/2013 issued by the Ministry of Science and Technology		Other
19	MOST	/C072019/	Circular No. 07/2019/TT-BKHCN dated 26/07/2019 issued by the Ministry of Science and Technology.		Other
20	EVN	/EVN/	Electricity of Vietnam – Northern Power Corporation issued Letter No. 2791/EVNNPC-KD dated 05/06/2020		Other
21	MOST	/DLVN/	Standard DLVN 39:2012 and DLVN 39 : 2019 on the methods and means of verifying alternating current static watt-hour meters by the Ministry of Science and Technology		Other

## 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
Description of CL				
CME response (1st round)			Date	DD/MM/YYYY
Documentation provided by CME				
<input type="checkbox"/> Changes in CPA-DD		Section(s):	New version No.:	
<input type="checkbox"/> Changes in XLS		Worksheet(s):	New version No.:	
<input type="checkbox"/> Other:				
DOE assessment (1 <sup>st</sup> round)			Date	DD/MM/YYYY



<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input type="checkbox"/> The finding is closed
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**Table 2. CARs from this validation**

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

**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>				
NA				
<b>CME's response</b>				<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by CME</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>
02.0	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 programmes of activities” (CDM-EB93-A08-STAN);</li><li>• Make editorial improvements.</li></ul>
01.0	29 December 2017	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Registration Keywords: post-registration change, component project activity, validation report		