




**Verification and certification report form 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>	Title: Vaayu India Wind Power Project in Tamilnadu UNFCCC Reference number: 4930
<b>Scale of the project activity</b>	<input checked="" type="checkbox"/> Large-scale <input type="checkbox"/> Small-scale
<b>Version number of the verification and certification report</b>	1.2Aa
<b>Completion date of the verification and certification report</b>	30/07/2020
<b>Monitoring period number and duration of this monitoring period</b>	Monitoring Period Number: 7 <sup>th</sup> Monitoring Period Duration: 03/01/2018 to 31/12/2019 (both days inclusive)
<b>Version number of the monitoring report to which this report applies</b>	03 dated, 08/07/2020
<b>Crediting period of the project activity corresponding to this monitoring period</b>	19/07/2011 to 18/07/2021 (Fixed Crediting Period)
<b>Project participants</b>	Vaayu (India) Power Corporation Private Limited ACT Financial Solutions B.V. First Climate Markets A.G.
<b>Host Party</b>	India
<b>Applied methodologies and standardized baselines</b>	ACM0002, ver. 12.1.0 - Consolidated baseline methodology for grid-connected electricity generation from renewable sources
<b>Mandatory sectoral scopes</b>	Sectoral Scope: 1 - Energy industries (renewable - / non-renewable sources)
<b>Conditional sectoral scopes, if applicable</b>	N/A
<b>Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD</b>	206,656 tCO <sub>2</sub> e
<b>Certified amount of GHG emission reductions or GHG removals for this monitoring period</b>	163,828 tCO <sub>2</sub> e
<b>Name and UNFCCC reference number of the DOE</b>	RINA Services S.p.A. (RINA) E-0037
<b>Name, position and signature of the approver of the verification and certification report</b>	Laura Severino (Authorized officer signing for the DOE) Head of Certification Innovation & Sustainability Unit 

## SECTION A. Executive summary

>>The project activity involves electricity generation by utilizing renewable wind energy. The project activity involves supply, erection, commissioning and operation of 63 machines of rated capacity 800 kW each. The machines are Enercon E-53 make. The project activity is located in Tirunelveli district State of Tamilnadu. The project activity supplies clean and renewable power to the grid. The WECs under the project activity were commissioned between 29/09/2010 and 11/07/2011. The project being a renewable energy generation activity, it leads to removal of fossil fuel dominated electricity generation.

### Scope of verification

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

The objective of the verification is to have an independent review ex post determination by a Designated Operational Entity (DOE) of the monitored reductions in GHG emissions that have occurred as a result of the registered CDM project activity during a defined monitoring period. Certification is the written assurance by the DOE that, during a specific time period, a proposed CDM project activity achieved the reductions in anthropogenic emissions by sources of GHGs as verified.

The scope of the verification is to verify that:

- the actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement;
- the reported GHG emission data is sufficiently supported by evidence.

Verification shall ensure that reported emission reductions are complete and accurate in accordance with applicable UNFCCC criteria for CDM in order to be certified.

### Verification process:

Verification is conducted using RINA procedures in line with the requirements specified in the latest version of the CDM Validation and Verification Standard, relevant decisions of the CDM EB and applying standard auditing techniques. RINA assesses and determines that the implementation and operation of the project activity, and steps taken to report emission reductions comply with the CDM criteria and relevant guidance provided by the Board. The verification assessment involved a document review of relevant documentation and the remote audit. Verification is not meant to provide any consultancy towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the monitoring.

### Conclusion:

Vaayu (India) Power Corporation Private Limited has commissioned RINA to carry out the verification and certification of emission reductions reported for the registered “Vaayu India Wind Power Project in Tamilnadu” project in India, CDM Registration Reference No. 4930, for the period 03/01/2018 to 31/12/2019. The project was validated by DNV (validation report No. 2010-0469) issued on 09/07/2010) and it was registered on 19/07/2011 under the CDM registration reference No. 4930. The GHG emission reductions were calculated on the basis of the approved methodology ACM0002 ver. 12.1.0 ‘Consolidated baseline methodology for grid-connected electricity generation from renewable sources’ and the monitoring plan included in the registered Project Design Document, version 10 of 03/10/2018.

In conclusion, it is RINA’s opinion that the project activity “Vaayu India Wind Power Project in Tamilnadu”, in “India”, as described in the Monitoring Report version 3.0 of 08/07/2020, meets all relevant requirements for CDM activities and all relevant host Party criteria and correctly applies the baseline and monitoring methodology ACM0002 ver. 12.1.0 ‘Grid-connected electricity generation from renewable resources’. Hence, RINA is able to certify that the emission reductions from the project during the monitoring period 03/01/2018 to 31/12/2019 amount to 163,828 tCO<sub>2</sub>e.

**SECTION B. Verification team, technical reviewer and approver****B.1. Verification team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Verification findings
1.	Team Leader, verifier, technical expert (TA1.2)	IR	MATHEW	VIJAY	RINA India	<input checked="" type="checkbox"/>	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**B.2. Technical reviewer and approver of the verification and certification report**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Amalorpavanathan	Cyril Augustus	RINA India
2.	Approver	IR	Severino	Laura	RINA HO

**SECTION C. Application of materiality****C.1. Consideration of materiality in planning the verification**

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	No risk envisaged	NIL	The project has successfully completed six verifications and the monitoring parameter 'net export of electricity to grid' is monitored in calibrated energy meter duly approved by Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO). Hence, no risk envisaged.	Cross checking all input values in the emission reduction spreadsheet with electricity generation records, invoices and calibration/meter test reports of energy meters.

**C.2. Consideration of materiality in conducting the verification**

>>In line with Guidelines for Application of materiality in verifications /14/, a reasonable level of assurance is defined for the verification of the project by complete verification of all the values indicated in the emission reduction spreadsheet with source documents such as electricity generation records, invoices at the document review stage and during remote site visit. There are no material errors, omissions or misstatements.

## SECTION D. Means of verification

### D.1. Desk/document review

>>The monitoring report, Version 01.0 of 10/04/2020, Version 02.0 of 26/06/2020, Version 03.0 of 08/07/2020 /01/, the emission reduction calculations provided in the form of a spreadsheet (ER Sheet\_ver 01\_05062020.xls) version 01 of 05/06/2020 /02/, were assessed as part of the verification. In addition, the Project Design Document (PDD) /03/ in particular the baseline estimations and the monitoring plan and the validation reports /05/ /07/ /09/ for the project were reviewed.

The monitoring report version 1.0 of 10/04/2020 /01/ was made publicly available on the CDM UNFCCC website on 15/04/2020. Appendix 3 lists the documentation that was reviewed during the verification.

### D.2. On-site inspection

Duration of remote-site inspection: 19/06/2020 to 19/06/2020				
No.	Activity performed during remote site visit	Site location	Date	Team member
1.	Implementation and operation of the proposed project activity. Checked the monitoring equipment, interviewed key personnel of the plant to confirm the operational and data collection procedures, cross-checked between information provided in the monitoring report and data plant.	Tirunelveli, Tamilnadu State	19/06/2020	Vijay Mathew
2.	Reviewed the information flows for generating, aggregating and reporting the monitoring parameters.			
3.	Checked calibration performance, reviewed calculations and assumptions made in determining the GHG data and emission reductions.			
4.	Checked the quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.			
5.	Cross-checked between information provided in the monitoring report and data evidence.			

A complete desk review of the submitted MR Version 01.0 of 10/04/2020, Version 02.0 of 26/06/2020, Version 03 of 08/07/2020 /01/and supportive evidences have been checked by the Verification Team.

In addition, audit team has conducted a remote site inspection via videoconference (Zoom) with PP on different topics as mentioned under section C.3 of this report. Based on the videoconference, MR review, as the review of UNFCCC procedures and guidelines, RINA Verification team has proceeded to skip the presential site visit due to the COVID-19 pandemic /27/ As per para 339 of CDM Validation and Verification Standard for Project activities version 02.0 /13/, Verification team has used the following alternative means for its assessment and to justify that they are sufficient for the purpose of verification.

- By review of MR;
- By taking follow up actions by conducted interview with PP, to gather information about knowledge of project design, current situation via videoconference. Cross-checked evaluation under the scope of all information and references provided in MD. Details of interviewees, topics covered and additional information presented in the below section "C.3 – Interviews".

Verification team has also checked the site visit requirements mentioned in the VVS for Project Activity version 02.0 /13/. The justification for the remote site visit requirements of VVS PA version 02.0 /13/ have been mentioned below.

VVS PA version 02.0 requirements	Verification team justification
<p>Para 338 (b)</p> <p>(b) On-site inspection taking into account paragraphs 339–341 below, involving:</p> <ul style="list-style-type: none"> <li>(i) An assessment of the implementation and operation of the registered CDM project activity as per the registered PDD or any approved revised PDD;</li> <li>(ii) A review of information flows for generating, aggregating and reporting the monitoring parameters;</li> <li>(iii) Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the registered monitoring plan;</li> <li>(iv) Cross checks between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources;</li> <li>(v) A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD, the applied methodologies, the applied standardized baselines and the other applied methodological regulatory documents;</li> <li>(vi) A review of calculations and assumptions made in determining the GHG data and GHG emission reductions or net anthropogenic GHG removals;</li> <li>(vii) An identification of quality control and quality assurance procedures in place to prevent, or identify and correct, any errors or omissions in the reported monitoring parameters.</li> </ul>	<p>Verification team has done the follow-up actions by:</p> <p>Team has carried out interviews with relevant persons to verify the implementation and operation of the registered CDM project activity as per the registered PDD or any approved revised PDD. For the project 'Vaayu India Wind Power Project in Tamilnadu' this is 7th verification; hence, previous periodic monitoring report and verification reports are assessed. Further, picture of monitoring meters, and other relevant background documents were provided and assessed.</p> <p>The verification team has carried out interviews using Zoom application with video camera function, in order to assess the information on registered monitoring plan in the PDD. Further, to gain information regarding the implementation, data collection procedure and operation of the project activity. PP walk in the project site so that the verification team was able to check the installed equipment. Team has reviewed the information flows for generating, aggregating and reporting the monitoring parameters.</p> <p>The ex post parameters are sourced from monthly generation report, issued by TANGENCO (a public utility company). All the generation reports are provided and verified. Cross checks of net generation data are done against the invoice submitted by the PP to TANGENCO. All the invoices are verified.</p> <p>PP presented during the videoconference all documents related to monitoring and equipment calibration.</p> <p>The calculations and assumptions made in determining the CERs were reviewed and discussed with PP by videoconference.</p>
<p>Para 339</p> <p>It is mandatory for the DOE to conduct an on- site inspection at verification for the registered CDM project activity if:</p> <ul style="list-style-type: none"> <li>(a) It is the first verification for the DOE with regard to this project activity;</li> <li>(b) More than three years have elapsed since the last on-site inspection conducted for verification for the project activity; or</li> <li>(c) The project activity has achieved more than 300,000 tCO<sub>2</sub>eq of GHG emission reductions or net anthropogenic GHG removals since the last verification when an on-site inspection was conducted.</li> </ul>	<p>The site visit for this project activity was not conducted due to the COVID-19 pandemic. The Executive Board of the Clean Development Mechanism (CDM) agreed on 23 June 2020, on an exceptional basis, considering the COVID-19 pandemic, to extend the period in which CDM Designated Operational Entities (DOEs) may apply alternative measures of validation/verification to mandatory on-site inspections until 31 December 2020. The site visit cannot be postponed since a delay on performing the mandatory on-site visit for the project activity 4930, will impact on a delay in CERs delivery to its ERPA signed on 24/02/2020 with the buyer.</p>

**D.3. Interviews**

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	V	Chandrasekar	Senior Manager	19/06/2020	Project description, implementation status of the project, Monitoring plan, and ER calculations. Metering equipment accuracy/calibration, performance frequency (project boundaries processes and equipments, involved-possible leakages). Monitoring practices (against the requirements of the PDD and the selected methodology) Cross-check between information provided in the monitoring report and data from other sources such as JMR, invoice and payment receipts. Operating staff competence and the risks for inappropriate operation and data collection procedures of the project (training needs).	Vijay Mathew
2.	Bose	Mallika	Assistant General Manager			
3.	Bose	Mallika	Assistant General Manager	19/06/2020	Monitoring report preparation, CER calculation, calibration records etc.	

**D.4. Sampling approach**

&gt;&gt;N/A

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

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form		01	
Compliance of the project implementation and operation with the registered PDD			
Post-registration changes			
Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines			
Compliance of monitoring activities with the registered monitoring plan	02	01	01
Compliance with the calibration frequency requirements for measuring instruments			
Assessment of data and calculation of emission reductions or net removals		01	
Assessment of reported sustainable development co-benefits			
Global stakeholder consultation			
Others (please specify)			
<b>Total</b>	<b>02</b>	<b>03</b>	<b>01</b>

## SECTION E. Verification findings

### E.1. Compliance of the monitoring report with the monitoring report form

<b>Means of verification</b>	Comparing the monitoring report <b>/01/</b> with the monitoring report form provided by CDM EB listed in UNFCCC website <b>/08/</b> .
<b>Findings</b>	CAR 01 was raised. CAR 01 PP has used the latest version of the Monitoring report form version 07.0. However, section A.2 of the monitoring report is not as per the Instructions for completing the monitoring form. PP is requested to correct the same. CAR 01 is closed. More information on how the CAR 01 is closed, is provided in Appendix-4 of the PDD
<b>Conclusion</b>	The verification team confirms that the monitoring report used by the PP is compliance with the latest MR form available at UNFCCC website and is in accordance with the applicable instruction; hence complies paragraph 352 & 353 of VVS, version 02.

### E.2. Remaining forward action requests from validation and/or previous verifications

>>N/A

### E.3. Compliance of the project implementation and operation with the registered project design document

<b>Means of verification</b>	As part of the remote audit RINA was able to confirm that the project implementation is in accordance with the project description contained in the PDD <b>/03/</b> . Further, RINA has verified the validation and PRC reports <b>/05/ /07/ /09/</b> . The project capacity involves installation of 63 nos. of Wind Energy Convertors (WECs) of aggregate capacity 50.4MW. Each WEGs is of 800 kW capacity. Type and capacity of individual WECs were confirmed from the previous validation reports <b>/05/ /07/ /09/</b> and Joint Meter Reports (JMRs) <b>/16/ /17/</b> . It was further assessed through the technical specifications of the WEGs model E-53. The was project capacity further confirmed from the and the details mentioned in previous commissioning certificates, verification report <b>/21/</b> and validation reports <b>/05/, /07/, /09/</b> . During the remote audit, no changes have been observed or identified which may impact the additionality as there was no change in the installed capacity, no addition of component nor extension of technology, no addition nor removal of project sites; no change has been observed or identified that may impact the scale
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	of the project activity or applicability of baseline and monitoring methodology ACM0002, version 12.1.0 <b>/04/</b> . The net electricity generation by the project from 03/01/2018 to 31/12/2019, is taken into consideration.
<b>Findings</b>	N/A
<b>Conclusion</b>	The project is implemented according to the description presented in the PDD, which is discussed above. The verifier confirms, through remote audit and from the JMRs, Calibration certificates/ Meter test reports, Commissioning certificates, previous validation and verification reports. All features of the CDM project activity including the equipment, data collecting systems and storage have been implemented in accordance with the registered PDD. The project activity is completely operational and the same has been confirmed.

#### **E.4. Post-registration changes**

##### **E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents<sup>1</sup>**

>>N/A

##### **E.4.2. Corrections**

>> During the last monitoring period, there is a permanent change in the project activity as out of the 63 registered WECs, the ownership of 19 WECs had been changed from “Vaayu (India) Power Corporation Pvt. Ltd.” to “Vaayu renewable energy Godavari Pvt. Ltd.” w.e.f. March 2016. PP has submitted a request for post registration change to UNFCCC. The changes have been approved by UNFCCC via a Post Registration Change (PRC) request; which was submitted via revised PDD (version 10, dated 03 Oct 2018) **/03/** and got approved on 16/01/2019 **/07/**.

##### **E.4.3. Changes to the start date of the crediting period**

>>N/A

##### **E.4.4. Inclusion of a monitoring plan**

>>N/A

##### **E.4.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents**

>> There were two permanent changes made during the previous monitoring periods. PP requested for a permanent change in Monitoring plan as the frequency of energy meter calibration has made in-line with the CEA regulations 2006 issued by the Central Electricity Authority **/10/**. PP has requested for a permanent change in the calibration frequency from annual to 'once in a five year'. This request was approved by UNFCCC **/06/**. Further, verified the validation report w.r.t. PRC-4930-001 **/09/**. The other Post Registration Change (PRC) was made related to ownership change of 19 WECs were transferred from VIPCPL to VREGPL; for which PRC request was made via registered PDD version 10, dated 03/10/2018, which was approved by UNFCCC on 16/01/2019 **/06/**. This PRC also includes some associated permanent changes into the registered monitoring plan and parameters. Such changes include representation of line diagram, source of data for monitoring parameters, cross checking mechanism, etc. These changes are included in the respective sections of the monitoring plan **/03/**. Further, verified the validation report w.r.t. PRC-4930-002 **/07/**.

##### **E.4.6. Changes to the project design**

>>N/A

<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).



**E.4.7. Changes specific to afforestation and reforestation project activities**

&gt;&gt;N/A

**E.5. Compliance of the registered monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents**

<b>Means of verification</b>	During the monitoring period it was noted that the parameters (also discussed in detail in section E.6.2) and the monitoring plan was found as per the applied methodology. There is no deviation observed between monitoring plan of the project activity with the monitoring plan of the applied methodology of the project activity.
<b>Findings</b>	N/A
<b>Conclusion</b>	All monitoring parameters, monitoring and calibration procedures follow the methodology requirements. No recommendation was made during this verification.

**E.6. Compliance of monitoring activities with the registered monitoring plan****E.6.1. Data and parameters fixed ex ante or at renewal of crediting period**

<b>Means of verification</b>	Data and parameters fixed ex-ante as listed in the monitoring report have been crosschecked and reviewed as applicable against the registered PDD, monitoring plan as well as against the applied methodology and other relevant CDM documentation.			
	<b>DATA/PARAMETER</b> Unit	Source of data	Reported value for the project period	Assessment/Observation
	<b>EF<sub>grid,OM,y</sub></b> Operating Margin Emission Factor of Southern Regional Electricity Grid in the year y tCO <sub>2</sub> e/MWh	UNFCCC registered project No. 4930 /06/	0.98756	The value is ex-ante fixed for the fixed crediting period of 10 years crediting period as per the registered PDD /03/, which has been justified and validated by validation DOE /05/ to follow the applied methodology and tool and already approved by EB.
	<b>EF<sub>grid,BM,y</sub></b> Build Margin Emission Factor of Southern Regional Electricity Grid in the year y tCO <sub>2</sub> e/MWh	UNFCCC registered project No. 4930 /06/	0.81792	The value is ex-ante fixed for the fixed crediting period of 10 years crediting period as per the registered PDD /03/, which has been justified and validated by validation DOE /05/ to follow the applied methodology and tool and already approved by EB.
<b>Findings</b>	<b>EF<sub>y</sub> or EF<sub>grid,CM,y</sub></b> Combined Margin Emission Factor of Southern Regional Electricity Grid in the year y tCO <sub>2</sub> e/MWh	UNFCCC registered project No. 4930 /06/	0.94515	The value is ex-ante fixed for the fixed crediting period of 10 years crediting period as per the registered PDD /03/, which has been justified and validated by validation DOE /05/ to follow the applied methodology and tool and already approved by EB.
	N/A			

<b>Conclusion</b>	RINA confirms that the parameters listed above are fixed ex-ante and used for baseline, project emissions and leakage emissions calculation in accordance with the applied methodology and methodological tools and they are the same used at the validation stage.
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### E.6.2. Data and parameters monitored

<b>Means of verification</b>	<b>Data/Parameter</b>	<b>Assessment</b>
	Data Unit	MWh (Mega-watt hour)
	Description	Net Electricity Exported to the grid and/or third party by the project ( $EG_{PJ,y}$ )
	Source of data to be used	Monthly statement provided by TNEB/ TANGEDCO
	Value of monitored parameter for the monitoring period	173,336.50 MWh
	Monitoring equipment	Energy meters are used to monitor Electricity import and export. Joint meter reading are taken; and based on the same net electricity exported is calculated. The details of the meters are mentioned in section E.7 of this report.
	Accuracy of the monitoring equipment	The accuracy class of energy meters are of 0.2S which is as per registered monitoring plan /03/. The same is confirmed from calibration/meter test reports /20/.
	Measuring/Reading/Recording frequency	Continuously measured and monthly recording. This is as per registered monitoring plan /03/. Records of monthly generation report (JMR) for the whole monitoring period is cross checked found the reported values to be correct /16//17/.
	Calculation method (if applicable)	$EG_{PJ,y} = EG_{Export,y} - EG_{Import,y} - T_E$ Where as, $EG_{Export,y}$ is the Electricity Export to the grid $EG_{Import,y}$ is the Electricity Import from the grid $T_E$ is the line Loss between 33 kV metering point and 110 kV metering point at WWIL substation. The source of the above parameters are mentioned in the subsequent table(s). The net electricity exported to the grid by the project activity is calculated by TNEB/ TANGEDCO from the directly measured values as per the procedure as described in section B.7.3 of the revised approved PDD /03/.
	<b>Data/Parameter</b>	<b>Assessment</b>
	Data Unit	MWh (Mega-watt hour)
	Description	Electricity exported by project activity to grid and/or third party recorded at 33kV metering points called Cluster meter ( $EG_{Export,y}$ )
	Source of data to be used	Monthly statement showing the electricity generated through windmills given by Tamilnadu Electricity Board (TNEB)/ TANGEDCO.
	Value of monitored parameter for the monitoring period	177,110.42 MWh

	Monitoring equipment	Energy meters are used to monitor Electricity export. The details of the meters are mentioned in section E.7 of this report.
	Accuracy of the monitoring equipment	The accuracy class of energy meters are of 0.2S which is as per registered monitoring plan /03/. The same is confirmed from calibration/meter test reports /20/.
	Measuring/Reading/Recording frequency	Continuously measured and monthly recording. This is as per registered monitoring plan /03/. Records of monthly generation report (JMR) for the whole monitoring period is cross checked found the reported values to be correct /16//17/.
	Calculation method (if applicable)	Not Applicable
	Data/Parameter	Assessment
	Data Unit	MWh (Mega-watt hour)
	Description	Electricity exported by project activity to grid and/or third party recorded at 33kV metering points called Cluster meter (EG <sub>Import,y</sub> )
	Source of data to be used	Monthly statement showing the electricity generated through windmills given by Tamilnadu Electricity Board (TNEB)/ TANGEDCO.
	Value of monitored parameter for the monitoring period	830.57 MWh
	Monitoring equipment	Energy meters are used to monitor Electricity import. The details of the meters are mentioned in section E.7 of this report.
	Accuracy of the monitoring equipment	The accuracy class of energy meters are of 0.2S which is as per registered monitoring plan /03/. The same is confirmed from calibration/meter test reports /20/.
	Measuring/Reading/Recording frequency	Continuously measured and monthly recording. This is as per registered monitoring plan /03/. Records of monthly generation report (JMR) for the whole monitoring period is cross checked found the reported values to be correct /16//17/.
	Calculation method (if applicable)	Not Applicable
	Data/Parameter	Assessment
	Data Unit	MWh (Mega-watt hour)
	Description	Line loss between the metering point at 33 kV metering points of project activity and the metering point at 110 kV at the WWIL pooling substation (T <sub>E</sub> )
	Source of data to be used	Monthly statement showing the electricity generated through windmills given by Tamilnadu Electricity Board (TNEB)/ TANGEDCO.
	Value of monitored parameter for the monitoring period	2,943.35 MWh
	Monitoring equipment	Calculated parameter.

	Accuracy of the monitoring equipment	Not applicable; since, it's a calculated parameter.
	Measuring/Reading/Recording frequency	The data is calculated monthly. The line loss calculation is done by TANGEDCO which is a state utility and is directly used for adjusting the net export recorded at 33kV metering clusters. This is as per registered monitoring plan /03/. Records of monthly generation report (JMR) for the whole monitoring period is cross checked found the reported values to be correct /16//17/.
	Calculation method (if applicable)	$T_E = Z \times (EG_{Export,y} - EG_{Import,y})$ <p>Where, Z = Percentage Line loss incurred in Line between the meters located at 33 kV metering point (including the machines of the project activity and other project developers) and the meters located at 110kV metering point (bulk meter: main and check) at high voltage side of receiving sub-station.</p> <p>The Line loss between the metering point at 33 kV metering points of project activity and the metering point at 110 kV at the WWIL pooling substation is calculated by TNEB/ TANGEDCO from the directly measured values as per the procedure as described in section B.7.3 of the revised approved PDD /03/.</p>
<b>Findings</b>	<p>CAR 02, CL 01, CL 02 and FAR 01 are raised.</p> <p><b>CL 01</b></p> <p>PP has submitted the Joint Meter Reports w.r.t. the project activity. The initial reading dates mentioned in the JMR starts from 02/01/2018 whereas the monitoring period start date is from 03/01/2018. PP is requested to clarify the same.</p> <p><b>CL 02</b></p> <p>PP has submitted the emission reduction calculation sheet. However, the values w.r.t. Line losses (TE) from the month December, 2018 onwards is not getting reflected in the emission reduction calculation. PP is requested to clarify the same.</p> <p><b>CAR 02</b></p> <p>PP has submitted the Joint Meter Reports, invoices w.r.t. the project activity. However, the values mentioned in section D.2. i.e. the data parameters monitored w.r.t. <math>EG_{Export}</math>, <math>EG_{Import}</math> and <math>T_E</math> and <math>EG_{P,J,y}</math> are not in line with the documents submitted.</p> <p><b>FAR 01</b></p> <p>PP has calculated the line losses as per the formula given in the registered PDD. However, the format of monthly generation statement is changed from the period December, 2018 for VIPCPL and from April, 2019 for VREGPL. Now the line loss is a percentage of net electricity supplied instead of mentioning in units. Therefore, verifying DOE is requested to cross verify the percentage with the invoice submitted by the PP to TANGENCO to ensure the conservativeness in the ER estimation.</p> <p>CAR 02, CL 01 and CL 02 are closed. More information on how the CAR 02 and CL 01 are closed, is provided in Appendix-4 of the PDD.</p>	

<b>Conclusion</b>	RINA is able to confirm that the monitoring has been implemented in full compliance with the registered monitoring plan and all the parameters listed in the registered monitoring plan have been completely monitored.
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**E.6.3. Implementation of sampling plan**

<b>Means of verification</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

**E.7. Compliance with the calibration frequency requirements for measuring instruments**

<b>Means of verification</b>	<p>According to approved monitoring plan in the registered PDD/03/ the meters are to be tested and calibrated once in 5 years. All the old meters have been replaced with new meters. The test report w.r.t. installation are provided and verified /20/. The details of monitoring equipment is involved in the project activity and their calibration dates of old meters and the test reports for new meters installation are summarised in the tables below. All the meters are of accuracy class of 0.2s. The assessment team has checked the energy meter test reports/20/ for accuracy and validity, so as to assure reliability and steadiness of monitoring results.</p> <p>Cluster Meter at 33kV level:</p> <table border="1"> <thead> <tr> <th>HTSC No</th><th>New meter make</th><th>Energy Meter SL. no</th><th>Date of Installation*</th><th>Calibration Due date</th><th>Accuracy Class</th><th>Meter Version</th></tr> </thead> <tbody> <tr><td>3376</td><td>EDMI</td><td>HT2170647</td><td>28-11-2017</td><td>27-11-2022</td><td>0.2s</td><td>DLMS</td></tr> <tr><td>3461</td><td>EDMI</td><td>HT2170448</td><td>30-10-2017</td><td>29-10-2022</td><td>0.2s</td><td>DLMS</td></tr> <tr><td>3462</td><td>EDMI</td><td>HT2170444</td><td>30-10-2017</td><td>29-10-2022</td><td>0.2s</td><td>DLMS</td></tr> <tr><td>3463</td><td>EDMI</td><td>HT2170445</td><td>30-10-2017</td><td>29-10-2022</td><td>0.2s</td><td>DLMS</td></tr> 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Version	3376	EDMI	HT2170647	28-11-2017	27-11-2022	0.2s	DLMS	3461	EDMI	HT2170448	30-10-2017	29-10-2022	0.2s	DLMS	3462	EDMI	HT2170444	30-10-2017	29-10-2022	0.2s	DLMS	3463	EDMI	HT2170445	30-10-2017	29-10-2022	0.2s	DLMS	3464	EDMI	HT2170451	30-10-2017	29-10-2022	0.2s	DLMS	3465	EDMI	HT2170232	16-06-2017	15-06-2022	0.2s	DLMS	3466	EDMI	HT2170232	16-06-2017	15-06-2022	0.2s	DLMS	3467	EDMI	HT2170230	16-06-2017	15-06-2022	0.2s	DLMS	3470	EDMI	HT2170453	30-10-2017	29-10-2022	0.2s	DLMS	3500	EDMI	HT2170454	31-10-2017	30-10-2022	0.2s	DLMS	3501	EDMI	HT2170459	31-10-2017	30-10-2022	0.2s	DLMS	3502	EDMI	HT2170391	15-07-2017	14-07-2022	0.2s	DLMS	3503	EDMI	HT2170392	15-07-2017	14-07-2022	0.2s	DLMS	3504	EDMI	HT2170396	15-07-2017	14-07-2022	0.2s	DLMS	3505	EDMI	HT2170394	15-07-2017	14-07-2022	0.2s	DLMS	3506	EDMI	HT2170395	15-07-2017	14-07-2022	0.2s	DLMS	3507	EDMI	HT2170389	15-07-2017	14-07-2022	0.2s	DLMS	3508	EDMI	HT2170228	16-06-2017	15-06-2022	0.2s	DLMS	3509	EDMI	HT2170236	16-06-2017	15-06-2022	0.2s	DLMS	3510	EDMI	HT2170227	16-06-2017	15-06-2022	0.2s	DLMS	3511	EDMI	HT2170226	16-06-2017	15-06-2022	0.2s	DLMS	3512	EDMI	HT2170462	31-10-2017	30-10-2022	0.2s	DLMS	3513	EDMI	HT2170225	16-06-2017	15-06-2022	0.2s	DLMS	3514	EDMI	HT2170229	16-06-2017	15-06-2022	0.2s	DLMS	3515	EDMI	HT2170449	30-10-2017	29-10-2022	0.2s	DLMS	3516	EDMI	HT2170446	30-10-2017	29-10-2022	0.2s	DLMS	3517	EDMI	HT2170456	31-10-2017	30-10-2022	0.2s	DLMS
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	<b>3518</b>	EDMI	HT2170463	31-10-2017	30-10-2022	0.2s	DLMS																					
	<b>3519</b>	EDMI	HT2170457	31-10-2017	30-10-2022	0.2s	DLMS																					
	<b>3528</b>	EDMI	HT2170460	31-10-2017	30-10-2022	0.2s	DLMS																					
	<b>3768</b>	EDMI	HT2170398	15-07-2017	14-07-2022	0.2s	DLMS																					
	<b>3769</b>	EDMI	HT2170291	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3770</b>	EDMI	HT2170619	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3771</b>	EDMI	HT2170379	18-07-2017	17-07-2022	0.2s	DLMS																					
	<b>3772</b>	EDMI	HT2170639	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3773</b>	EDMI	HT2170292	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3774</b>	EDMI	HT2170295	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3775</b>	EDMI	HT2170296	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3776</b>	EDMI	HT2170638	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3777</b>	EDMI	HT2170616	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3778</b>	EDMI	HT2170293	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3779</b>	EDMI	HT2170469	30-10-2017	29-10-2022	0.2s	DLMS																					
	<b>3780</b>	EDMI	HT2170465	30-10-2017	29-10-2022	0.2s	DLMS																					
	<b>3781</b>	EDMI	HT2170387	18-07-2017	17-07-2022	0.2s	DLMS																					
	<b>3782</b>	EDMI	HT2170429	18-07-2017	17-07-2022	0.2s	DLMS																					
	<b>3783</b>	EDMI	HT2170385	18-07-2017	17-07-2022	0.2s	DLMS																					
	<b>3784</b>	EDMI	HT2170386	18-07-2017	17-07-2022	0.2s	DLMS																					
	<b>3785</b>	EDMI	HT2170382	18-07-2017	17-07-2022	0.2s	DLMS																					
	<b>3789</b>	EDMI	HT2170290	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3790</b>	EDMI	HT2170614	28-11-2017	27-11-2022	0.2s	DLMS																					
	<b>3791</b>	EDMI	HT2170297	28-11-2017	27-11-2022	0.2s	DLMS																					
<b>Calibration details for Bulk meter at 110kV level installed at sub-station is as follows:-</b>																												
<table><tr><th rowspan="2">Meter Serial No.</th><th rowspan="2">Make</th><th rowspan="2">Accuracy class</th><th colspan="2">Previous dates of calibration</th><th>Due date of calibration</th></tr><tr><th>2011</th><th>2015</th><th>2020</th></tr><tr><td>HT1100044</td><td>Wallaby</td><td>0.2s</td><td>09/11/2011</td><td>20/04/2015</td><td>20/04/2020</td></tr><tr><td>HT1100045</td><td>Wallaby</td><td>0.2s</td><td>12/11/2011</td><td>20/04/2015</td><td>20/04/2020</td></tr></table>								Meter Serial No.	Make	Accuracy class	Previous dates of calibration		Due date of calibration	2011	2015	2020	HT1100044	Wallaby	0.2s	09/11/2011	20/04/2015	20/04/2020	HT1100045	Wallaby	0.2s	12/11/2011	20/04/2015	20/04/2020
Meter Serial No.	Make	Accuracy class	Previous dates of calibration		Due date of calibration																							
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HT1100045	Wallaby	0.2s	12/11/2011	20/04/2015	20/04/2020																							
From the above, it is evident that calibration of meters cover the monitoring period.																												
<b>Findings</b>	N/A																											
<b>Conclusion</b>	RINA confirms that the calibration confirms the proper functioning of the monitoring equipment and is valid for the whole verification monitoring period. According to clause 338 (b), and 373 of VVS version 02, verification team has checked calibration/meter test reports to confirm that the frequency of calibration is carried out as specified in the registered monitoring plan (clause 358, 361, and 365 of VVS, version 2.0)																											

## E.8. Assessment of data and calculation of emission reductions or net removals

### E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

<b>Means of verification</b>	The baseline emission for the project activity has been calculated as per the PDD version 10 dated 03/10/2018 /03/ and ACM0002, version 12.1.0 /04/ as follows:
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	<p>The baseline emissions are to be calculated as follows:</p> $BE_y = EG_{PJ, y} * EF_{grid, CM, y}$ <p>and</p> $EG_{PJ, y} = EG_{Export, y} - EG_{Import, y} - T_E$ <p>Where,  <math>BE_y</math> is the Baseline emissions in year <math>y</math> (tCO<sub>2</sub>/yr). <math>EG_{PJ, y}</math> is the Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year <math>y</math> (MWh/yr). This as calculated as difference of <math>EG_{export}</math>, <math>EG_{import}</math> and <math>T_E</math> as monitored continuously and recorded in monthly generation reports. <math>T_E</math> is the line loss between the metering point at 33 kV metering points of project activity and the metering point at 110 kV at the WWIL pooling substation.</p> <p>As stated in the section E.6.2 above, <math>EG_{export}</math>, <math>EG_{import}</math> and <math>T_E</math> during the monitoring period is 177,110.42 MWh, 830.57 MWh and 2943.35 MWh respectively which results to <math>EG_{PJ, y}</math> as 173,336.50 MWh for the monitoring period and the measurement is in line with the applied methodology and registered monitoring plan. The monthly <math>EG_{export}</math>, <math>EG_{import}</math> and <math>T_E</math> reported values are found consistent with monthly generation records /16/ /17/. Further, the net export of electricity is cross checked from the monthly invoices raised /18/ /19/ to TANGENCO and found both monthly generation report and invoices are consistent. Hence, reported values of monthly electricity export and import is correct.</p> <p><math>EF_{grid, CM, y}</math> (combined margin grid emission factor) of 0.94515 tCO<sub>2</sub>/MWh was fixed ex-ante which is confirmed from the registered PDD/03/ and validation report /05/ /07/. The value found consistent. Accordingly, the resulted Baseline emissions (<math>BE_y</math>) for the monitoring period is 163,828 tCO<sub>2</sub>e (rounddown value).</p>
<b>Findings</b>	<p>CAR 03 is raised.</p> <p>CAR 03</p> <p>The amount of GHG emission reductions achieved by the project activity for this monitoring period is not in line with the JMR and Invoice submitted. Further, the amount of GHG emission reductions estimated ex ante for this monitoring period in the PDD estimated is not inline.</p> <p>CAR 03 is closed. More information on how the CAR 03 is closed, is provided in Appendix-4 of the PDD.</p>
<b>Conclusion</b>	<p>RINA confirms that baseline emissions have been appropriately calculated and are consistent with site visit observations, the applied methodology and registered PDD /01/, /02/, /03/, /04/, /05/, /07/, /09/, /16/, /17/, /18/, /19/.</p>

#### E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

<b>Means of verification</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

#### E.8.3. Calculation of leakage GHG emissions

<b>Means of verification</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

#### E.8.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

<b>Means of verification</b>	Emission Reductions:
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	<p>The emission reductions in this monitoring period are:</p> $ER_y = BE_y - PE_y - L_y$ <p>Where,</p> <p><math>ER_y</math> is the total emission reductions of the project activity during the year <math>y</math> in <math>tCO_{2e}</math>;</p> <p><math>BE_y</math> is the baseline emissions for the project activity during the year <math>y</math> in <math>tCO_{2e}</math>;</p> <p><math>PE_y</math> is the emissions for the project activity during the year <math>y</math> in <math>tCO_{2e}</math>;</p> <p><math>LE_y</math> is the leakage emissions for the project activity during the year <math>y</math> in <math>tCO_{2e}</math>.</p> <p>As explained in section E.8.1 above, the resulted Baseline emissions (<math>BE_y</math>) for the monitoring period is 163,828 <math>tCO_{2e}</math>. Similarly as explained in section E.8.2 and section E.8.3 project emission and leakage emissions are zero for the monitoring period. Hence, resulted emission reduction for the monitoring period is 163,828 <math>tCO_{2e}</math>.</p>
<b>Findings</b>	<p>CAR 03 is raised.</p> <p>CAR 03</p> <p>The amount of GHG emission reductions achieved by the project activity for this monitoring period is not in line with the JMR and Invoice submitted. Further, the amount of GHG emission reductions estimated ex ante for this monitoring period in the PDD estimated is not inline.</p> <p>CAR 03 is closed. More information on how the CAR 03 is closed, is provided in Appendix-4 of the PDD.</p>
<b>Conclusion</b>	<p>The data presented in the monitoring report <b>/01/</b> and emission reduction worksheet <b>/02/</b> were assessed by reviewing in detail project documentation, collection of monitored data, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. Sufficient evidences were presented and verified by RINA for the reported emission reductions as listed above.</p>

#### E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

<b>Means of verification</b>	<p>The emission reductions from the project for the monitoring period as reported in the monitoring report revision 3 of 08/07/2020 <b>/01/</b> is 163,828 <math>tCO_{2e}</math>. The reported emission reductions are 20.72% lower than the estimated emission reduction of 206,656 <math>tCO_{2e}</math> for the period as per the registered PDD version 10 of 03/10/2018 <b>/03/</b>.</p>
<b>Findings</b>	<p>CAR 03 is raised.</p> <p>CAR 03</p> <p>The amount of GHG emission reductions achieved by the project activity for this monitoring period is not in line with the JMR and Invoice submitted. Further, the amount of GHG emission reductions estimated ex ante for this monitoring period in the PDD estimated is not inline.</p> <p>CAR 03 is closed. More information on how the CAR 03 is closed, is provided in Appendix-4 of the PDD.</p>
<b>Conclusion</b>	<p>The emission reduction calculations provided in the spreadsheet <b>/02/</b> have been verified to be correct and in line with the registered PDD <b>/03/</b>.</p>

#### E.8.6. Remarks on difference from estimated value in registered PDD

<b>Means of verification</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

#### E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

<b>Means of verification</b>	GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards
------------------------------	--	---



	NA	163,828 tCO <sub>2</sub>
<b>Findings</b>	<p>CAR 03 is raised.</p> <p>CAR 03</p> <p>The amount of GHG emission reductions achieved by the project activity for this monitoring period is not in line with the JMR and Invoice submitted. Further, the amount of GHG emission reductions estimated ex ante for this monitoring period in the PDD estimated is not inline.</p> <p>CAR 03 is closed. More information on how the CAR 03 is closed, is provided in Appendix-4 of the PDD</p>	
<b>Conclusion</b>	RINA confirms that the actual GHG emission reductions achieved during period starting from 1st January 2013 onwards was verified to be 163,828 tCO <sub>2</sub> e.	

#### E.9. Assessment of reported sustainable development co-benefits

<b>Means of verification</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

#### E.10. Global stakeholder consultation

<b>Means of verification</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

### SECTION F. Internal quality control

>>The final verification report before being submitted to UNFCCC for request of issuance was subjected to an independent internal technical review to confirm that all verification activities had been completed according to the pertinent RINA instructions. The technical review was performed by a technical reviewer(s) qualified in accordance with RINA's qualification scheme for CDM validation and verification.

### SECTION G. Verification opinion

>>RINA Service Spa (RINA) has performed verification of the emission reductions reported for the project activity "Vaayu India Wind Power Project in Tamilnadu" in India, CDM Registration Reference No. 4930, for the period 03/01/2018 to 31/12/2019, with regard to the relevant requirements for CDM activities.

The project participants of the "Vaayu India Wind Power Project in Tamilnadu" project are responsible for:

- the preparation of greenhouses gas emissions data and the reported greenhouse gas emission reductions from the project on the basis set out in the monitoring plan contained in the registered project design document version 10, dated 03/10/2018
- the development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of greenhouse gas emission reductions of the project

It is the responsibility of RINA to express an independent verification opinion about the project's conformity with the requirements of paragraph 62 of the CDM modalities and procedures and on the reported greenhouse gas emission reductions from the project.

Based on documented evidence and corroborated by an on-site assessment RINA can confirm that:

- the project has been implemented and operated as per the registered PDD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable CDM requirements;
- the monitoring is in place as per the applied baseline and monitoring methodology;
- the monitoring complies with the monitoring plan in the registered PDD;
- the monitoring plan in the registered PDD is as per the applied baseline and monitoring methodology.

### SECTION H. Certification statement

>> It is RINA's opinion that the GHG emission reduction stated in the monitoring report version 03 of 08/07/2020 for the "Vaayu India Wind Power Project in Tamilnadu" project in India for the period 03/01/2018 to 31/12/2019 are fairly stated. The GHG emission reductions were calculated correctly on the basis of the approved monitoring methodology "ACM0002", "Consolidated baseline methodology for grid-connected

electricity generation from renewable sources", version 12.1.0 and the monitoring plan contained in the registered PDD.

Hence RINA is able to certify that the emission reductions from the project during the monitoring period 03/01/2018 to 31/12/2019 amount to 163,828 tCO<sub>2</sub>e.

## Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emissions
CAAT	Computer Assisted Auditing Technique
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM M&P	Modalities and Procedures CDM
CER(s)	Certified Emission Reduction(s)
CH <sub>4</sub>	Methane
CL	Clarification Request
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
CRT	Coordination and Technical Control Staff
DCI	Certification Division of RINA Services Spa
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
ENV	Electricity of Vietnam (Grid)
ER	Emission Reductions
FAR	Forward Action Request
GHG(s)	Greenhouse gas(es)
GWP	Global Warming Potential
IEC	International Electrotechnical Commission
IPCC	Intergovernmental Panel on Climate Change
JMR	Joint Meter Reading
LoA	Letter of Approval
MoV	Means of Verification
MR	Monitoring Report
PD	Power Density
PDD	Project Design Document
PE	Project Emission
PP(s)	Project Participant(s)
PRC	Post Registration Changes
Ref.	Document Reference
RINA	RINA Services Spa
SS(s)	Sectoral Scope(s)
TA(s)	Technical Area(s)
TANGEDCO	Tamil Nadu Generation and Distribution Corporation Limited
TNEB	Tamil Nadu Electricity Board
UNFCCC	United Nations Framework Convention on Climate Change
VREGPL	Vaayu Renewable Energy (Godavari) Private Limited
VIPCPL	Vaayu (India) Power Corporation Private Limited
VVS	Validation and Verification Standard
VVS-PA	Validation and Verification Standard for Project Activities
WEC	Wind Energy Convertors
WWIL	Wind World (India) Limited

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



### CERTIFICATO DI QUALIFICA QUALIFICATION CERTIFICATE

Si attesta che il sig./sig.ra:

Amalorpavanathan Cyril AUGUSTUS AROKIASAMY

We declare that Mr/Mrs/Ms:

è qualificato come<sup>1</sup>:  
is qualified as:

CDM-TEC, CDM-VAL, CDM-VER, CDM-TL,  
ITRP, REG-EXP<sup>2</sup>

per le seguenti aree tecniche:  
for the following technical areas:

1.1, 1.2, 3.1, 5.1, 13.1

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.1	Thermal energy generation	1
1.2	Renewables	1
3.1	Energy Demand	3
5.1	Chemical industry	5
13.1	Solid Waste and wastewater	13

in accordo alle istruzioni della Unità Certification Innovation and Sustainability.

in accordance with the instructions of the Certification Innovation and Sustainability Unit.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	30/08/2010	-
13	31/03/2017	Updated qualification as ITRP
14	20/09/2018	Update qualification as REG-EXP
15	15/11/2019	Update qualification with "Sampling and surveys for CDM PAs and PoAs"

Il Resp. CEINS  
Head of CEINS

<sup>1</sup> Legend:

VAL: Validator  
VER: Verifier  
TEC: Technical Expert  
TL: Team Leader  
FIN-EXP: Financial Expert  
DET: Determiner

CDM: Clean Development Mechanism  
VCS: Verified Carbon Standard  
GS: Gold Standard  
SCS: Social/Carbon Standard  
JI: Joint Implementation

<sup>2</sup> Ghana, Azerbaijan, China, Sri Lanka, Bangladesh, Nepal, Thailand, Indonesia, Singapore, Malaysia, Cambodia, Vietnam, Philippines, UAE and Iraq, Brazil, Japan.

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VGSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VGSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports

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**CERTIFICATO DI QUALIFICA  
QUALIFICATION CERTIFICATE**

Si attesta che il sig./sig.ra:  
We declare that Mr/Mrs/Ms:

**Mathew Vijay**

è qualificato come<sup>1</sup>:  
is qualified as:

**CDM -TEC, -VAL, -VER, -TL  
ITRP**

per le seguenti aree tecniche:  
for the following technical areas:

**1.2**

AREE TECNICHE TECHNICAL AREAS	DESCRIZIONE DELL'AREA TECNICA TECHNICAL AREA DESCRIPTION	SCOPO SETTORIALE SECTORAL SCOPE
1.2	Renewables	1

in accordo alle istruzioni del Settore Sostenibilità & Cambiamenti Climatici.  
in accordance with the instructions of the Sustainability & Climate Change Sector.

REVISIONE REVISION	DATA DATE	MOTIVAZIONI PER LA REVISIONE REASON FOR THE REVISION
0	02/08/2012	-
4	18/04/2017	Update qualification as Verifier and ITRP
5	15/11/2019	Update qualification with "Sampling and surveys for CDM PAs and PoAs"

Il Resp. CEINS  
Head of CEINS

<sup>1</sup> Legend:

VAL: Validator  
VER: Verifier  
TEC: Technical Expert  
TL: Team Leader  
FIN-EXP: Financial Expert  
DET: Determiner

CDM: Clean Development Mechanism  
VCS: Verified Carbon Standard  
GS: Gold Standard  
SCS: Social Carbon Standard  
JI: Joint Implementation

RINA Services S.p.A. è accreditato da UNFCCC, quale Entità Operativa Designata (DOE), per condurre la Validazione e la Verifica di Progetti CDM, da VCSA per condurre la Validazione e la Verifica di Progetti VCS, da GS Foundation, per condurre la Validazione e la Verifica di Progetti GS, da Ecologica Institute per condurre la Validazione e la Verifica di rapporti SCS

RINA Services S.p.A. is accredited by the UNFCCC, as Designated Operational Entity (DOE), to carry out Validation and Verification of CDM Projects, by the VCSA, to carry out Validation and Verification of VCS Projects, by the GS Foundation, to carry out Validation and Verification of GS Projects and by the Ecologica Institute, to carry out Validation and Verification of SCS Reports

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### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Vaayu (India) Power Corporation Private Limited	Monitoring report for project activity 'Vaayu India Wind Power Project in Tamilnadu' in India for the period 03/01/2018 to 31/12/2019	Version 01.0 of 10/04/2020, Version 02.0 of 26/06/2020, Version 03 of 08/07/2020	PP
2	Vaayu (India) Power Corporation Private Limited	Emission reduction calculation spreadsheet (ER Sheet_ver 01_05062020.xls)	Version 01 of 05/06/2020, Version 02 of 05/06/2020, Version 03 of 26/06/2020, Version 04 of 08/07/2020.	PP
3	Vaayu (India) Power Corporation Private Limited	CDM-PDD for project activity "Vaayu India Wind Power Project in Tamilnadu" in India	Version 10, dated 03/10/2018	PP
4	UNFCCC	ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"	Version 12.1.0	Others
5	DNV	CDM validation report of "Vaayu India Wind Power Project in Tamilnadu"	Revision 02 of 9/07/2010	Others
6	UNFCCC	Project 4930 : Vaayu India Wind Power Project in Tamilnadu	<a href="https://cdm.unfccc.int/Projects/DB/DNV-CUK1308823376.98/view">https://cdm.unfccc.int/Projects/DB/DNV-CUK1308823376.98/view</a>	Others
7	Applus+ Certification	CDM PRC validation reports of "Vaayu India Wind Power Project in Tamilnadu" (The PRC Reference number is PRC-4930-002)	Version 04 of 14/11/2018	Others
8	CDM Executive Board	Monitoring Report Form	(CDM-MR-FORM), version 07.0 of 31/05/2019	Others
9	Earthood Services Private Limited	CDM PRC validation reports of "Vaayu India Wind Power Project in Tamilnadu" (The PRC Reference number is PRC-4930-001)	Version 01 of 07/03/2016	Others
10	Central Electricity Authority	Ministry of Power, Government of India Notification No. 502/70/CEA/DP&D dated 17/03/2006	dated 17/03/2006	Others
11	CDM Executive Board	Clean Development Mechanism Project Cycle Procedure	Version 02.0 of 29/11/2018	Others
12	CDM Executive Board	Clean Development Mechanism Project Standard	Version 02.0 of 29/11/2018	Others
13	CDM Executive Board	Clean Development Mechanism Validation and Verification Standard for Project activities	Version 02.0 of 29/11/2018	Others
14	UNFCCC	Guideline: Application of materiality in verifications	Version 02 of 20/02/2015	Others
16	VIPCPL	Monthly electricity generation reports (JMRs) from January 2018 to December 2019		PP

17	VREGPL	Monthly electricity generation reports (JMRs) from January 2018 to December 2019		PP
18	VIPCPL	Monthly invoices raised to TANGECCO for net electricity export from January 2018 to December 2019		PP
19	VREGPL	Monthly invoices raised to TANGECCO for net electricity export from January 2018 to December 2019		PP
20	VIPCPL and VREGPL	Test reports of all the individual energy meters (51 nos) of the registered project activity for the current monitoring period; and Calibration certificates of the main and check meter [bulk meters] at the substation for the current monitoring period.		PP
21	Applus+ Certification	CDM verification report of "Vaayu India Wind Power Project in Tamilnadu" (6 <sup>th</sup> Monitoring period)	Version 03 of 31/10/2019	PP
22	CDM Executive Board	CDM Executive Board agrees to relax mandatory site visits by DOEs for a period of three months (23 March to 23 June 2020) because of COVID-19.		Other

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

Table 1. Remaining FAR from validation and/or previous verifications

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

Table 2. CL from this verification

CL ID	01	Section no.	E.6.2	Date: 1206/2020
Description of CL				
PP has submitted the Joint Meter Reports w.r.t. the project activity. The initial reading dates mentioned in the JMR starts from 02/01/2018 whereas the monitoring period start date is from 03/01/2018. PP is requested to clarify the same.				
Project participant response				Date: 26/06/2020

<p>The meter reading is taken at a particular time of the day (i.e. 12:00 noon), for example, generation for the period 01/12/2017 to 02/01/2018 would denote reading till that time of 02/01/2018, i.e. till 12 noon. Accordingly, for the generation data of the period from 03/01/2018 to 01/02/2018, the meter reading will be taken post 12 noon on 02/01/2018, hence, in the JMR, the recording date is reflecting as 02/01/2018, even though it is for 03/01/2018. As the meter reading has been taken on the same day post 12 noon as explained above, there will be no double accounting of emission reduction.</p> <p>The same is also reflected in the Joint Meter Readings prepared by State Utility for the previous month and this month and based on which ER calculation has been done.</p>	
<b>Documentation provided by project participant</b>	
The copy of the Joint Meter Readings prepared by State Utility for the previous month (part of the previous verification) and this month (part of the ongoing verification) have been provided as supportive documents.	
<b>DOE assessment</b>	<b>Date: 26/06/2020</b>
The justification provided by PP is acceptable. Further, PP has checked the previous verification reports and JMR details. Found acceptable. Hence, CL 01 is closed.	

<b>CL ID</b>	02	<b>Section no.</b>	E.6.2	<b>Date:</b> 12/06/2020
<b>Description of CL</b>				
PP has submitted the emission reduction calculation sheet. However, the values w.r.t. Line losses ( $T_E$ ) from the month December, 2018 onwards is not getting reflected in the emission reduction calculation. PP is requested to clarify the same.				
<b>Project participant response</b>				<b>Date:</b> 08/07/2020
Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO) had implemented AMR system (Automated Meter Reading) from the period of 'Dec 2018-Jan 2019' onwards. Accordingly, the format in which the line loss getting reflected in the generation statements are now different.				
<p><b>For VIPCPL machines</b></p> <p>Due to the installation of the AMR system and updation of Open Access software in March 2019 to include the provision of line loss in terms of percentage instead of units in the generation statements, the following methodology applies from April 2019 onwards:</p> <p>As power generated from all VIPCPL machines are sold to TANGEDCO, the generation statement from April 2019 onwards reflects the export units after taking into consideration the line loss. The same can be further cross-checked with the invoice of each month where, the net units = Export after deduction of the line loss based on a certain percentage – Import. Payments are also being made by the DISCOM against the same invoice raised by the PP each month.</p>				
<p><b>For VREGPL machines</b></p> <p>Due to the installation of the AMR system and as VREGPL WECs are under captive mode, from 01/12/2018 onwards, transmission loss based on a certain percentage has been considered. This transmission loss is in accordance with LTOA (Long term Open Access) charges as per the order issued by TNERC.</p> <p>Like VIPCPL machines also, only export value is reflected in the generation statement along with import and the export value takes into consideration the loss calculated as a percentage. The same can be cross-checked from the Invoices (each month) against which payments are being made by the DISCOM.</p> <p>For both the (VIPCPL and VREGPL) machines, this line loss is being calculated by taking the difference between the bulk meter reading installed at Substation end and the summation of individual meter readings installed at each WTG's end. The same is in line with the registered PDD (Page no. 39).</p>				
<b>Documentation provided by project participant</b>				
The revised ER sheet, version 4, dated 8 July 2020, the revised Monitoring Report, Version 3 dated 8 July 2020 have been provided. The copy of the invoices have been provided earlier.				



<b>DOE assessment</b>	<b>Date:</b> 09/07/2020
As per the registered PDD, the value is directly applied based on the monthly generation statement issued by TANGENCO; which is in line with the current measurement arrangement. Further, according to the registered PDD w.r.t. measurement method and procedure for the parameter $T_E$ states that 'Line loss between metering point at 33kV and the metering point at 110kV at WWIL substation is applied to the meter reading taken at meters connected at 33 KV for the project activity. WWIL pooling Substation is connected to the machines of the project activity and the machines commissioned by the other project owners. Therefore, Line loss is applied to the project activity by the state utility as reflected in the Monthly billing records taken at 33kV level. The line loss calculation is done by TNEB which is a state utility and is directly used for adjusting the net export recorded at 33kV metering clusters'. Hence the justification provided by the PP is found in line with the registered PDD. Further, the same has been cross checked with the invoice for the percentage values of $T_E$ . So, the justification provided by the PP is found acceptable. Hence, CL 02 is closed	

Table 3. CAR from this verification

<b>CAR ID</b>	01	<b>Section no.</b>	E.1	<b>Date:</b> 12/06/2020
<b>Description of CAR</b>				
PP has used the latest version of the Monitoring report form version 07.0. However, section A.2 of the monitoring report is not as per the Instructions for completing the monitoring form. PP is requested to correct the same.				
<b>Project participant response</b>				<b>Date:</b> 26/06/2020
The section A.2 has been corrected in the Monitoring Report.				
<b>Documentation provided by project participant</b>				
Please refer to the revised section A.2 of the Monitoring Report, Version 2 dated 26 June 2020.				
<b>DOE assessment</b>				<b>Date:</b> 26/06/2020
PP has revised the Monitoring report. Now the revised MR is in-line with the instruction for completing the monitoring form. Hence, the CAR 01 is closed.				

<b>CAR ID</b>	02	<b>Section no.</b>	E.6.2.	<b>Date:</b> 12/06/2020
<b>Description of CAR</b>				
PP has submitted the Joint Meter Reading Reports, invoices w.r.t. the project activity. However, the values mentioned in section D.2. i.e. the data parameters monitored w.r.t. $EG_{Export}$ , $EG_{Import}$ and $T_E$ and $EG_{P,J,y}$ are not in line with the documents submitted.				
<b>Project participant response</b>				<b>Date:</b> 26/06/2020
The section D.2 has been revised.				
<b>Documentation provided by project participant</b>				
Please refer to the revised section of the Monitoring Report, Version 2, 26 June 2020.				
<b>DOE assessment</b>				<b>Date:</b> 26/06/2020
The PP has revised MR and ER sheet. Now, the values of $EG_{Export}$ , $EG_{Import}$ and $T_E$ and $EG_{P,J,y}$ mentioned in the monitoring report version 02 and ER sheet version 02, are inline with the joint meter reading reports. Hence, the CAR 02 is closed.				

<b>CAR ID</b>	03	<b>Section no.</b>	E.8.1	<b>Date:</b> 12/06/2020
<b>Description of CAR</b>				
The amount of GHG emission reductions achieved by the project activity for this monitoring period is not in line with the JMR and Invoice submitted. Further, the amount of GHG emission reductions estimated ex ante for this monitoring period in the PDD estimated is not inline.				
<b>Project participant response</b>				<b>Date:</b> 26/06/2020
During the webhosting period, an estimated value of the Emission Reductions (ERs) was considered due to the non-availability of all the JMRs and Invoices. At present, the ER value has been revised considering the values in line with the JMRs and the Invoices.				
Accordingly, the GHG emission reductions estimated ex ante for this monitoring period has also been revised in line with the PDD.				
<b>Documentation provided by project participant</b>				
The revised ER sheet, version 3, dated 26 June 2020 and the copy of the JMRs and Invoices have been provided.				
<b>DOE assessment</b>				<b>Date:</b> 26/06/2020

The PP has revised MR and ER sheet. Now, the emission reduction value mentioned in the monitoring report version 02 and ER sheet version 02, are in line with the joint meter reading reports and invoices. Hence, the CAR 03 is closed.

**Table 4. FAR from this verification**

<b>FAR ID</b>	01	<b>Section No.</b>	E.6.2	<b>Date:</b> 09/07/2020
<b>Description of FAR</b>				
<i>PP has calculated the line losses as per the formula given in the registered PDD. However, the format of monthly generation statement is changed from the period December, 2018 for VIPCPL and from April, 2019 for VREGPL. Now the line losses are is a percentage of net electricity supplied instead of mentioning in units. Therefore, verifying DOE is requested to cross verify the percentage with the invoice submitted by the PP to TANGENCO to ensure the conservativeness in the ER estimation.</i>				
<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

## 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 structural and editorial improvements.</li> </ul>
02.1	11 January 2018	Editorial revision to correct the numbering of appendices in the instructions.
02.0	31 October 2017	Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: project activities, verifying and certifying		