




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

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

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	Wind Power Project at Vaspet, Maharashtra (UNFCCC number-8606 ¹)
Number and duration of the next crediting period	Second renewable crediting period 15/12/2019 to 14/12/2026
Version number of the validation report	01
Completion date of the validation report	12/11/2019
Version number of PDD to which this report applies	06
Project participants	M/s ReNew Wind Energy Delhi Private Limited M/s ReNew Wind Energy (Rajkot) Private Limited
Host Party	India
Applied methodologies and standardized baselines	ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version 19.0.
Mandatory sectoral scopes	01
Conditional sectoral scopes, if applicable	NA
Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next crediting period	94,425 tCO _{2e}
Name and UNFCCC reference number of the DOE	Earthood Services Private Limited UNFCCC Ref. No.: E-0066
Name, position and signature of the approver of the validation report	 Dr. Kaviraj Singh Managing Director

¹ <https://cdm.unfccc.int/Projects/DB/BVQI1354817285.58/view>

SECTION A. Executive summary

M/s ReNew Wind Energy Delhi Private Limited & M/s ReNew Wind Energy (Rajkot) Private Limited envisages setting up wind power project of 45 MW capacity at Village: Vaspeta of Sangli district of Maharashtra. The project consists of installation of 30 Vensys make wind turbines of 1.5 MW (Model V82) capacity each. The machines are supplied by ReGen Powertech. The electricity generated from this wind farm is planned to be sold to state utility..

This project will generate clean energy by installing wind turbines in Maharashtra. The development of the project activity would reduce the Green House Gas (GHG) emissions produced by the Indian (erstwhile NEWNE) grid generation mix.

These turbines are supplied by ReGen Powertech and are designed for particular wind conditions. The technology for the same is environmentally safe and sound and there is no technology transfer to the host party involved in the same. Lifetime of the WTGs is expected to be 20 years as per data shared by the technology supplier.

The project is environmentally safe as it uses renewable sources for electricity generation and also technologically sound as it uses latest advanced technology with variable pitch and speed technology maximize energy production.

The project activity is a grid connected renewable energy project that supplies electricity to the Indian grid, thus it comes under the Sectoral scope Sectoral Scope : 1 Energy industries (renewable / non-renewable sources). The estimated ERs of the project activity are 94,425 tCO₂e.

Validation Scope: The scope is defined as an independent and objective review of the project design document (PDD). The PDD is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board, including the approved baseline and monitoring methodology ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version 19.0. The validation was based on the requirements in the CDM validation and verification standard for project activities, version 02.

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

Scope of validation

M/s ReNew Wind Energy Delhi Private Limited has contracted ESPL to conduct the validation of the renewal of the crediting period of the project activity "Wind Power Project at Vaspeta, Maharashtra".

The scope of the validation is to establish that:

- the PA is in accordance with all relevant CDM rules and requirements;
- the PA is in accordance with conditions of the latest version of applied methodology ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version 19.0;
- the validation of the renewal of crediting period is in accordance with requirements of CDM methodological tool "TOOL11 – Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period" – version 03.0.1.

Validation Process:

The validation process involved the following:

- contract with Project Proponent for the scope of validation of the renewal of the crediting period of the project activity;
- desk review;
- physical on-site inspection;
- issuance of validation findings;
- reporting, calculation checks, QA/QC and resolution of findings;

- issuance of draft validation report;
- independent technical review of the project documentation;
- issuance of the final validation report;
- submission of the request for renewal, as appropriate

Conclusion

ESPL has performed a validation of the the renewal of the crediting period of the CDM PA “Wind Power Project at Vaspet, Maharashtra” for second crediting period.

The validation team has confirmed that it is in accordance with all relevant CDM rules and requirements and conditions of the latest version of applied methodology ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” Version 19.0. In addition, it was confirmed that the monitoring system is feasible and the estimated emission reductions are conservatively calculated.

The PA is expected to generate an annual average of 94,425 tCO₂e in the second crediting period.

Therefore, the request for renewal of the crediting period of the PA is being submitted in accordance with the CDM procedures.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader	EI	Takarkhede	Atul	Central Office	Y	Y	Y	Y
2.	Technical Expert (TA1.2)	EI	Takarkhede	Atul	Central Office	Y	Y	Y	Y
3.	Methodology Expert	IR	Kumar	Sanjeev	Central Office	Y	N	N	Y
4.	Local Expert	IR	Kumar	Sanjeev	Central Office	Y	N	N	Y
5.	Verifier	IR	Kumar	Sanjeev	Central Office	Y	N	N	Y

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Gupta	Anshika	Central Office
2.	TA expert to TR	IR	Gupta	Anshika	Central Office
	Approver	IR	Singh	Kaviraj	Central Office

SECTION C. Means of validation

C.1. Desk/document review

A desk review was conducted by the validation team that included:

- a review of the data and information presented to assess its completeness;

- b. a review of the registered project activity, the applied methodology including applicable tool(s) and, where applicable, the applied standardized baseline;
- c. a review of supporting documents.

A complete list of documents/evidences reviewed is included as Appendix 3.

C.2. On-site inspection

Duration of on-site inspection: 08/11/2019 (Telephonic interviews)				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening Meeting: Introduction, scope and objective of work, roles and responsibilities of audit team, resources required, and timetable of the onsite audit including venue for closing meeting and any concerns from PP.	Telephonic interviews & document review	08/11/2019 (Telephonic interviews)	Atul Takarkhede
2.	- Implementation and operation of project activity (project boundary, technology, project equipment, monitoring and metering equipment) as per registered PDD/previous verification.			
3.	- Physical inspection of the project activity and Substation (if applicable): Site visit and interview of personnel			
4.	Revalidation checklist: compliance of monitoring procedures, regulations, application of methodology and baseline calculation compared with registered PDD and monitoring methodology.			
5.	Review of ex-ante calculation and relevant document in accordance with registered monitoring plan and applied monitoring methodology.			
6.	- Compilation of the audit findings.			
7.	Closing Meeting: Submission of the audit findings to the client and agreement on the issues raised and agreement on timelines.			

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Ithape	Atul	Site Incharge (Vaspet & Jath)	08/11/2019 (Telephonic)	- Project Implementation - Operation and Maintenance - Calibrations etc.	Atul Takarkhede
2.	Rajpoot	Pankaj	EKI Consultants	08/11/2019 (Telephonic)	- General aspects - CDM aspects - EF calculation - ER calculation	

There is no pre-project information that is relevant to the requirements for registration of the project activity and which may not be traceable after the registration, being project is already implemented as per the registered CDM PDD^{3/}. To validate the implementation of project activity, onsite operation & maintenance, monitoring & management practices; assessment team has conducted telephonic interviews^{12/} with onsite in-charge and also had a detail discussion with the project participant and reviewed third party statutory

documents i.e. Commissioning certificates^{/2/}, Power Purchase Agreement^{/10/}, Sample JMRs^{/11/}, Sample Invoice (for cross check of Net electricity supplied to the grid as per registered PDD and approved methodology) etc. After telephonic interviews with concerned onsite persons, document reviews; assessment team concluded that the project activity is still implemented and operated in-line with the registered CDM PDD^{/3/}. There is no change in the project design or operation and monitoring practices at site^{/5/} which can alter the applicability or additionality of the project activity. Assessment team therefore of the opinion that project is implemented as described in the registered PDD^{/3/} for first crediting period and no change is envisaged for the proposed second crediting period^{/5/}.

C.4. Sampling approach

The assessment team did not apply any sampling approach for the project activity. The site visit was conducted for complete power plant implemented in the locations as mentioned in the PDD^{/5/}.

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

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	01	02	00
Application and selection of methodologies and standardized baselines	00	00	00
Validity of original baseline or its update	00	00	00
Estimated emission reductions or net anthropogenic removals	00	01	00
Validity of monitoring plan	00	00	00
Crediting period	00	00	00
Project participants	00	02	00
Post-registration changes	00	00	00
Others (please specify)	00	00	00
Total	01	05	00

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	Assessment team checked the PDD version 11.0 forms supplied by the project participant and found that the latest form applicable in the UNFCCC web site is used for the presentation of the PDD.
Findings	CL 01, CAR 03 & CAR 04 was raised during the validation process and closed successfully.
Conclusion	<p>Assessment team also checked the commissioning certificates^{/2/} and found the same to be correct. The actual commissioning date checked from the 3rd party Government documents i.e. MSEDCL and found to be accurate^{/2/}.</p> <p>The latest version of the PDD template (CDM-PDD-FORM – version 11) available at the UNFCCC website has been used^{/5/}. The issues found were all addressed.</p> <p>It has been filled out in accordance with the instructions.</p> <p>No post registration changes is envisaged for the second CP as the project is implemented as per the registered PDD^{/5/} of 1st CP and in continuous operation apart from scheduled maintenance^{/11/} (as per manufacturer specification) and thus there is no scenario observed which can alter the requirement of the methodology^{/7/}. The project activity complies with the applicability criteria of the large scale CDM Project activity category. There is no change in installed capacity of the project as mentioned in registered PDD for 1st CP^{/3/}. The same is checked by the assessment team during telephonic interviews of onsite personnels, document review and found correct.</p>

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

Means of validation	The assessment team has validated the documentation referred to in the revised PDD for renewable of crediting period and verified the documentation content for
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	<p>verifying the justification of the applicability of the methodology ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” Version 19.0. and confirmed that the documentation referred to in the PDD is correctly quoted and interpreted. The assessment team has also cross-checked the information provided in the registered PDD of 1st CP with the documentation other than from the PDD based on the local and sectoral knowledge of the assessment team.</p> <p>Following documentation has been reviewed by the assessment team:</p> <ul style="list-style-type: none"> - telephonic interviews of onsite personnels - Technical detail analysis of the power plant from the documents submitted by the manufacturer. - Commissioning certificates of the turbines - PPA for the project activity <p>The assessment of the project's compliance with the applicability criteria of ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” Version 19.0. are documented in detail in section B.2 of the PDD.</p>	
Findings	Applicability criteria were explained properly as per the requirement of the applied approved methodology for the present crediting period. No finding was raised on the section.	
Conclusion	The applied baseline methodology is justified as it has been demonstrated that the proposed project activity is:	
	Applicability Criterion	Project Case
	<p>1. This methodology is applicable to grid-connected renewable energy power generation project activities that:</p> <ul style="list-style-type: none"> (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plants/units; (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)/unit(s) 	The project activity is a Renewable Energy Project i.e. Wind Power Project which falls under applicability criteria option 1 (a) i.e., “Install a Greenfield power plant”. Hence the project activity meets the given applicability criterion.
	<p>2. The methodology is applicable under the following conditions:</p> <ul style="list-style-type: none"> (a) The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit; (b) In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition 	The option (a) of applicability criteria 2 is applicable as project is renewable energy wind power project.

	<p>projects the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity.</p>	
	<p>3. In case of hydro power plants, one of the following conditions shall apply:²</p> <ul style="list-style-type: none"> (a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or (b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density calculated using equation (3), is greater than 4 W/m²; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (3), is greater than 4 W/m²; or (d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (3), is lower than or equal to 4 W/m², all of the following conditions shall apply: <ul style="list-style-type: none"> (i) The power density calculated using the total installed capacity of the integrated project, as per equation (4), is greater than 4 W/m²; (ii) Water flow between reservoirs is not used by any other hydropower unit which is not 	<p>Not applicable as the project is installation of new wind based electricity generation plant.</p>

² Project participants wishing to undertake a hydroelectric project activity that result in a new reservoir or an increase in the volume of an existing reservoir, in particular where reservoirs have no significant vegetative biomass in the catchments area, may request a revision to the approved consolidated methodology.

	<p>a part of the project activity;</p> <p>(iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m² shall be:</p> <p>a. Lower than or equal to 15 MW; and</p> <p>b. Less than 10 per cent of the total installed capacity of integrated hydro power project.</p>	
	<p>4. In the case of integrated hydro power projects, project proponent shall:</p> <p>(a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or</p> <p>(b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum five years prior to implementation of CDM project activity.</p>	The project is wind power project and thus the criterion is not applicable to this project activity.
	<p>5. The methodology is not applicable to:</p> <p>(a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site;</p> <p>(b) Biomass fired power plants/units.</p>	<p>(a) The project activity is Greenfield and there is no switching of fossil fuel to renewable energy. Hence the criteria is not applicable to the project activity</p> <p>(b) The project is not a biomass fired power plant. Hence the criteria is not applicable to the project activity.</p>

	6. In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is “the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance”.	Not applicable, the wind project is a Green field project activity and this project is not the enhancement or up gradation project.
	7. In addition, the applicability conditions included in the tools referred to below apply. ³	Tool to calculate the emission factor for an electricity system - Version 07.0 (EB 100, Annex 04) have been applied appropriately.
	Assessment team confirms that the application of the baseline methodology is transparent and conservative and confirms that the chosen baseline and monitoring methodology i.e. ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” Version 19.0. is applicable to the project activity ^{7/} .	

D.3. Validity of original baseline or its update

Means of validation	The baseline scenario as depicted in the updated PDD for renewal of crediting period is checked during document review and also during the interview with the PP.
Findings	The baseline is selected as per the requirement of the approved methodology ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” Version 19.0. for the present Crediting period. No finding was raised on this section.
Conclusion	<p>Assessment team referred “Methodological tool (EB 66, Annex 47) “Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period^{9/}.” (Version 03.0.1)” and CDM validation and verification standard for project activities, version 02” to check the originality of the baseline. Following are the observation of the assessment team regarding selected baseline for the project activity in this present second renewable crediting period:</p> <p><u>Step 1.1 (EB 66, Annex 47): Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies</u></p> <p>The baseline for the project activity is the electricity delivered to the grid by the project activity which would have otherwise been generated by the operation of grid connected power plants and by the addition of new generation sources into the grid. The project activity is claiming the emission reductions from the net exported electricity to the grid only. In absence of project activity this quantity of electricity would have been generated from the electricity grid mix (mainly fossil fuel). The Government of India enacted the Electricity Act in the year 2003 to harmonize and rationalize the provisions in the then existing laws. The Act consolidated the laws relating to generation, transmission, distribution, trading and use of electricity. With the Enactment of the act, the then existing laws viz, The Indian Electricity Act 1910, The Electricity Supply Act, 1948 and The Electricity Regulatory Commissions Act,</p>

³ The condition in the “Combined tool to identify the baseline scenario and demonstrate additionality” that all potential alternative scenarios to the proposed project activity must be available options to project participants; does not apply to this methodology, as this methodology only refers to some steps of this tool.

1998 were repealed. The Electricity Act 2003 was in force at the time of the completion of the baseline study during first crediting period.

The baseline remains unchanged for the present, second crediting period since there is no policy been revised and/or is currently in force as well, therefore the baseline scenario is still in compliance with all the relevant mandatory national and/or sectoral policies.

Step 1.2 (EB 66, Annex 47) : Assess the impact of circumstances

There are no new circumstances that can impact the original baseline. The baseline emission factor value is however updated based on the current data available for the grid.

Step 1.3 (EB 66, Annex 47): Assess whether the continuation of the use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested

As per the “Tool to determine the remaining lifetime of equipment”, the remaining lifetime of the equipment is the time for which the existing equipment can continue to operate before it has to be replaced/discarded. As per this Tool, Project participant can use one of the following options to determine the remaining lifetime of the equipment:

- (a) Use manufacturer’s information on the technical lifetime of equipment and compare to the date of first commissioning;
- (b) Obtain an expert evaluation;
- (c) Use default value

The project activity started commercial operation in the year 26/09/2012 (Commissioning of first set of WTGs) and since commissioning, the project activity is running satisfactorily. As per Manufacturer specification and Registered PDD, the technical lifetime of WTGs is 20 years (As per 1st CP) as per option 1 of Tool to determine the remaining lifetime of the Equipment. Thus the remaining lifetime of equipment’s exceeds the 2nd crediting period for which renewal is requested.

The below conditions are fulfilled. (i)The equipment has been operated and maintained according to the recommendations of the equipment supplier; (ii) There are no periodic replacement schedules or scheduled replacement practices specific to the industrial facility, that require early replacement of equipment before the expiry of the technical lifetime; and (iii) The equipment has no design fault or defect and did not have any industrial accident due to which the equipment cannot operate at rated performance levels.

An per option (a), evaluating the remaining lifetime for the type of equipment has been approached and requested to determine the remaining lifetime of the equipment. The assessment of remaining life time of the equipment’s had been done and confirmed that the remaining technical lifetime of the equipment of the project activity exceeds the crediting period for which renewal is requested. As the remaining technical lifetime of the equipment is not less than the end of the crediting period or which renewal is requested, the current baseline holds good for this crediting period too.

Step 1.4(EB 66, Annex 47): Assessment of the validity of the data and parameters

This step stipulates that “Where emission factors, values or emission benchmarks are used and determined only once for the crediting period, they should be updated, except if the emission factors, values or emission benchmarks are based on the historical situation at the site of the project activity prior to the implementation of the project and cannot be updated because the historical situation does not exist anymore as a result of the CDM project activity.”

The project chosen **ex-ante default value i.e. Emission Factor**. As per the

	<p>Guidance given in Tool the emission factor is updated as follows:</p> <ol style="list-style-type: none"> 1. The operating margin is calculated as per the latest version of CEA "CO₂ Baseline Database" (Version 14) available to the project participant^{/8/}. The operating margin calculation is checked by the assessment team and found correct. 2. The build margin is considered from CEA "CO₂ Baseline Database" version 14 as per "Tool to calculate the emission factor for electricity system" version 07. The value considered is checked by the assessment team and found correct. 3. The Combined margin calculation is carried out as per "Tool to calculate the emission factor for electricity system" version 07. The value considered is checked by the assessment team and found correct. <p>The emission factor is fixed ex-ante and thus will be used for the complete second renewable crediting period and for entire verification conducted under second renewable crediting period.</p> <p>Application of Steps 1.1, 1.2, 1.3 and 1.4 confirmed that the current baseline is valid for the Second crediting period but data and parameters needs to be updated. Therefore step 2 is used</p> <p>Step 2.1: Update the current baseline This step is applicable since the Steps 1.1, 1.2, 1.3 and/or 1.4 showed that the current baseline needs to be updated. As evident from the explanation provided above the baseline scenario remains unchanged.</p> <p>Updated the baseline emissions based on the latest approved version of the methodology applicable to the project activity for the subsequent crediting period, without reassessing the baseline scenario.</p> <p>Step 2.2: Update the data and parameters The updated Data and/or parameter are followed for estimating the baseline emissions</p> <p>Hence as per ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version 19.0. (latest Methodology), the baseline of the project is as follows:</p> <p><i>Project activity is the installation of a Greenfield power plant, the baseline scenario is electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system".</i></p> <p>The above selected baseline is correct and thus applicable to the project activity and in line with approved methodology for the applied renewable of crediting period.</p>
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D.4. Estimated emission reductions or net anthropogenic removals

Means of validation	The emission reduction sheet, CEA "CO ₂ Baseline Database" version 14.0 (Latest applicable) and updated PDD is checked by the assessment team.
Findings	CAR 05 was raised and closed successfully.
Conclusion	The baseline emissions as discussed in section B.6.1 will include emissions that would have occurred in the absence of the project activity. The emission reduction calculation has been done as per the ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version 19.0. ^{/7/} .

Baseline Emission (BE_y):

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

Where

BE_y = Baseline emissions in year y (tCO₂/yr)

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

EF_{grid,CM,y} = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO₂/MWh)

However, inline with the para 44 of the ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version 19.0.^{7/}, the project activity is the installation of a Greenfield power plant, hence:

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

EG_{BL,y} = EG_{facility,y} is Calculated as Installed Capacity x PLF x Operating hours.

PP has estimated the baseline energy generation considering the capacity of the project activity, yearly generation hour and plant load factor. Validation team assessed the technical specification of the promoters of the project activity, Commissioning certificate and found that installed capacity of this project activity is correct^{2/}.

Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors according to the procedure prescribed in the "Tool to calculate the emission factor for an electricity system" version 07.0 which is sourced from CEA "CO₂ Baseline Database" version 14.0, Govt. of India and forms the part of emission reduction calculation^{8/}. The baseline emission factor calculation is checked by the validation team and found that the calculation is transparent and conservative.

$$BE_y = 1,00,796 \times 0.9368 = 94,425 \text{ tCO}_2\text{e}$$

Project Emissions:

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

Leakage Emissions:

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

Emission Reductions:

The project activity reduces carbon dioxide emissions through displacement of grid electricity generation with predominantly fossil fuel based power plants⁴ by renewable electricity. The emission reduction (ER_y) due to project activity during a given year y is calculated as the difference between baseline emissions (BE_y), project emissions (PE_y) as per the formulae given below:

$$ER_y = BE_y - PE_y$$

$$ER_y = 94,425 - 0 \text{ tCO}_2\text{e}$$

$$ER_y = 94,425 \text{ (Rounded Down)}$$

D.5. Validity of monitoring plan

Means of validation	Assessment team checked the monitoring practice onsite and also checked the requirement of ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” Version 19.0. and procedure mentioned in the registered PDD of 1 st CP.
Findings	No finding raised on the section.
Conclusion	<p><u>Parameters determined ex-ante:</u></p> <ol style="list-style-type: none"> 1. $EF_{grid,OM,y} := (0.9610 \text{ tCO}_2/\text{MWh})$ = Operating Margin emissions factor for grid connected power generation in year y calculated using the latest version of “Tool to calculate the emission factor for an electricity system version 07.” $EF_{grid, OM, y}$ is computed using the Simple Operating margin CO₂ emission factor. Simple Operating margin CO₂ emission factor is calculated from 3-year generation weighted average using data for the years 2015-16, 2016-17 & 2017-18 CO₂ emissions per unit net electricity generation of all power plants serving the system, not including low-cost / must-run. This is in agreement with the guidance provided in the Tool to calculate the emission factor for an electricity system. The value is considered from CEA “CO₂ Baseline Database” version 14^{/8/}. The value is fixed ex-ante for the entire duration of 2nd crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required. 2. $EF_{grid,BM,y} := (0.8644 \text{ tCO}_2/\text{MWh})$ Build Margin emissions factor for grid connected power generation in year y calculated using the latest version of “Tool to calculate the emission factor version 07 for an electricity system. Build margin emission factor is the generation-weighted average emission factor of all power plants <i>m</i> during the most recent year <i>y</i> for which generation data is available. The value is considered from CEA “CO₂ Baseline Database” version 14^{/8/}. The value is fixed ex-ante for the entire duration of 2nd crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required 3. $EF_{grid,CM,y} := (0.9368 \text{ tCO}_2/\text{MWh})$ Combined Margin emissions factor for grid connected power generation in year y calculated using the latest version of “Tool to calculate the emission factor for an electricity system version 07.” Combined Margin is computed using the official data sources and is in-line with the guidance provided in the tool. The value is considered from CEA “CO₂ Baseline Database” version 14^{/8/}. The combined margin emissions factor is calculated as follows: <p style="text-align: center;"> $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$ Where: $EF_{grid,BM,y}$ = Build margin CO₂ emission factor in year y (tCO₂/MWh) $EF_{grid,OM,y}$ = Operating margin CO₂ emission factor in year y (tCO₂/MWh) W_{OM} = Weighting of operating margin emissions factor (%) = 75% W_{BM} = Weighting of build margin emissions factor (%) = 25% </p> <p>The above weighing is as per “Tool to calculate the emission factor for an electricity system”, version 07.0.0 for other projects (Wind in this case) and for second crediting period. The value is fixed ex-ante for the entire duration of second crediting period. As the value is sourced from CEA (publicly available document) no further analysis is required.</p> <p><u>Parameters determined ex-post:</u></p> <p>$EG_{facility,y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y</p>

The net electricity supplied to grid is a calculated value and would be determined as the difference between the electricity exported to the grid and the electricity imported from the grid by the project activity. Thus,

$$EG_{facility,y} = E_{export,y} - E_{import,y}$$

The value for the parameter will be sourced from the primary source i.e. Joint Meter Readings (JMR) by Maharashtra State Electricity Transmission Co. Ltd. (MSETCL). The monthly energy meter reading is duly signed by both O&M personal and state electricity board official. The primary source will be used for emission reduction calculation for the entire duration of second CP. The practice is as per the first CP registered PDD and approved methodology. The Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y is the difference between the measured quantities of the grid electricity export and the import. The electricity export and import will be measured continuously using energy meter installed at the site and the readings will be recorded in the presence of the MSETCL and the PP on the first day of every month. The PP will prepare invoices on a monthly basis based on the quantity of net electricity supplied to the grid. The monthly data will be considered for calculating the annual net electricity exported to the grid by the project activity during the year y.

Accepted industry standard: National standard as described in the Power Purchase Agreement.

Measurement equipment: Energy meters

Calibration frequency: once in 5 years

Accuracy of the meters: 0.2 class

Measurement interval: continuous measurement, monthly recording

The energy meters installed are microprocessor based ABT compliant tri-vector meter. The meters will be calibrated once in 5 years. The data will be archived electronically for a minimum of two years after the end of the crediting period or the last issuance of CERs for this project activity, whichever occurs later.

EG_{export,y}: The quantity of electricity supplied by the project plant/unit to the grid in year y

The electricity exported by the project activity is monitored through the installed set of energy meters (main and check) at the substation of the project activity. Monthly readings are taken jointly by the representative of State Electricity Transmission Co. Ltd. and site in charge of Project Proponent and a statement is prepared and signed by the representatives of both parties.

EG_{import,y}: The quantity of electricity imported by the project plant/unit from the grid in year y

The electricity imported by the project activity is monitored through the installed set of energy meters (main and check) at the substation of the project activity. Monthly readings are taken jointly by the representative of State Electricity Transmission Co. Ltd. and site in charge of Project Proponent and a statement is prepared and signed by the representatives of both parties.

EG_{All_controller,i,y}: Sum of Electricity generation measured by controllers of project and non-project WTGs connected to feeder i during period y
Controllers meter readings of individual WTGs monitored at the Central Monitoring Station (CMS). All WTGs are connected to CMS through SCADA software.

EG_{WTG_controller,i,y}: Sum of Electricity generation measured by controllers of all the project WTGs that are connected to feeder i during period y

The data is monitored via project activity WTG Controllers and is recorded daily in Power Generation Reports by the O&M Contractors. All WTGs are connected to CMS through SCADA software.

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D.6. Crediting period

Means of validation	The crediting period is checked as per UN home page (reference number : 8606 and discussion with Client.
Findings	No finding raised on this section.
Conclusion	This is second renewable crediting period and the duration is 7-year renewable (second CP duration: 15/12/2019 to 14/12/2026).

D.7. Project participants

Means of validation	The project participant names were checked from UN homepage https://cdm.unfccc.int/Projects/DB/BVQI1354817285.58/view		
Findings	CAR 06 & CAR 07 was raised and closed successfully.		
Conclusion	Following are the details of PP (host country) and Annex 1 country. The same is correct and in line with PDD registered under first Crediting period ^{3/} as well as MOC obtained from UN home page. The details are true for the second Crediting period as well.		
	Parties involved	Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
	India (Host)	M/s ReNew Wind Energy Delhi Private Limited Private Entity & ReNew Wind Energy (Rajkot) Private Limited	No
	Netherlands	Amsterdam Capital Trading B.V.	No

D.8. Post-registration changes

Type of post-registration changes (PRCs)	Confirmation (Y/N)	Validation report for PRCs	
		Version	Completion date
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents ⁵	N	NA	NA
Corrections	N	NA	NA
Change to the start date of the crediting period	N	NA	NA
Inclusion of a monitoring plan	N	NA	NA
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents	N	NA	NA
Changes to the project design	N	NA	NA
Changes specific to afforestation and reforestation project activities	N	NA	NA

⁵ Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

SECTION E. Internal quality control

The draft validation report that is prepared by validation team is reviewed by an independent technical review team (one or more members) to confirm if the internal procedures established and implemented by ESPL were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable CDM rules/requirements.

The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope to which the project activity is related. All members of technical review team are independent of the validation team.

During the technical review process, additional findings may be identified or the closed-out findings may be opened, which needs to be satisfactorily resolved before the request for the renewal of the crediting period is submitted to UNFCCC. The independent technical reviewer may either approve the report as such or reject/return the same, in such case, providing the comments/findings/issues that needs to be resolved by the validation team. The decision taken by the technical reviewer is final and is authorized on behalf of ESPL.

SECTION F. Validation opinion

ESPL, contracted by M/s ReNew Wind Energy Delhi Private Limited, has performed the independent validation of the renewal of crediting period of the project^{/1/} "Wind Power Project at Vaspet, Maharashtra".

ESPL commenced the validation based on the baseline and monitoring methodology ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version 19.0.^{/7/}, the registered PDD^{/3/} (from previous crediting period) and updated PDD^{/5/} (for the second crediting period).

ESPL's validation approach is based on the understanding of the risks associated with reporting the project activity, estimates of GHG emission data and the controls to be implemented to mitigate these. ESPL planned and performed the validation by obtaining evidence, other information and explanations that ESPL considered necessary to give reasonable assurance that the estimated GHG emission reductions are fairly to be achieved.

The validation team confirms, based on final version of revised PDD for the second crediting period, that:

- the original baseline is still valid as it is given by the applied methodology;
- the project additionality is valid for the renewal of the crediting period. No regulatory surplus has been identified. The project is in accordance with all applicable regulations and legislations;
- the project description is in accordance with the characteristics identified on site;
- the monitoring plan is adequate to the project activity and it is in accordance with the applied methodology;
- at this second crediting period, the project activity is likely to achieve the estimated of 94,425 tCO₂e per year.

Appendix 1. Abbreviations

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

Appendix 2. Competence of team members and technical reviewers

Competence Statement			
Name	Atul Takarkhede		
Education	Ph.D. Environmental Science		
Experience	12 years		
Field	Climate Change and environment		
Approved Roles			
Team Leader	YES		
Validator	NO		
Verifier	NO		
Methodology Expert	NO		
Local expert	NO		
Financial Expert	NO		
Technical Reviewer	NO		
TA Expert	YES (1.2)		
Reviewed by	Shreya Garg	Date	24/04/2019
Approved by	Anshika Gupta	Date	25/04/2019

Competence Statement			
Name	Sanjeev Kumar		
Country	India		
Education	B. Tech. (Chemical Engineering) M.Tech. (Energy Management)		
Experience	13.5 years +		
Field	Climate Change, Environment, Energy		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	YES (ACM0002, ACM0006, ACM0004, ACM0009, ACM0012, ACM0001, AMS I.D, AMS I.F, AMS I.C, AMS I.A, AMS II.D, AMS II.E, AMS III.H, AM0009, AM0013, AM0025, AM0056, AM0028, AM0029, AM0008)		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	YES (TA 1.1, TA 1.2, 4.1, 13.1)		
Reviewed by	Shreya Garg	Date	13/12/2018
Approved by	Anshika Gupta	Date	13/12/2018

Competence Statement			
Name	Anshika Gupta		
Country	India		
Education	M.Sc. (Climate Science & Policy), TERI University		
Experience	4 Years +		
Field	Climate Change		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	AMS-I.A., AMS-II.G., ACM0002, AMS-III.A.V.		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	Yes (TA 1.2, TA 3.1)		
Reviewed by	Shreya Garg	Date	12/03/2019
Approved by	Kaviraj Singh	Date	12/03/2019

Competence Statement			
Name	Kaviraj Singh		
Country	India		
Education	Ph.D. (Environmental Engineering), IIT Delhi Masters (Energy & Environmental), DAVV Indore		
Experience	15 Years +		
Field	Climate Change & Environment		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	AMS-I.D., AMS-II.D., ACM0006, AMS-I.A., AMS-I.C., AMS-II.B., AMS-III.H, ACM0002, ACM0001, AM0080		
Local expert	YES (India)		
Financial Expert	YES		
Technical Reviewer	YES		
TA Expert	YES (TA 1.1, TA 1.2, TA 13.1, 13.2)		
Reviewed by	Abhishek Mahawar	Date	01/03/2018
Approved by	Ashok Gautam	Date	01/03/2018

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	ESPL	Contract of the project participant with the DOE	Contract document signed between PP and DOE	Project participant
2.	MSEDCL	Commissioning Certificates for WTGs	Commissioning phasewise dated 26/09/2012, 28/09/2012, 30/09/2012, 26/02/2013, 21/03/2013, 03/04/2013, 22/05/2013, 03/07/2013, 06/08/2013	Project participant
3.	PP	Registered CDM PDD for first crediting period	Version 04 dated 09/11/2012	UNFCCC
4.	RINA	Validation Report for first crediting period (Report No. BVC/INDIA-VD/500.49/2012)	Version 01 dated 20/10/2012	UNFCCC
5.	PP	Draft Updated PDD for Renewal of Crediting Period	Version 05 dated 23/10/2019	Project participant
		Final updated PDD for Renewal of Crediting Period	Version 06 dated 11/11/2019	
6.	PP	Estimated Emission reduction calculation sheet	Version 01 dated 23/10/2019	Project participant
7.	UNFCCC	ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version 19.0.	UNFCCC CDM web site	UNFCCC
8.	NA	Ministry of Environment and forest: www.envfor.nic.in UNFCCC www.cdm.unfccc.int CEA: Central electricity authority www.cea.nic.in	Reference link is provided.	Independent Search
9.	UNFCCC	Tools/ guidelines used in the project activity: <ul style="list-style-type: none"> • Clarification on national and/or sectoral policies Para 27 EB 55. • Tool to determine the remaining lifetime of the project activity in line with Annex 15 EB 50. • Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion, Version 3. • Tool to calculate the emission factor for an electricity system version 07. 	UNFCCC CDM web site	UNFCCC

		<ul style="list-style-type: none"> Assessment of the validity of the original / current baseline and update of the baseline at the renewal of the crediting period.” (Version 03.0.1). 		
10.	MSEDCL & PP	Power Purchase Agreements for the project activity	Total 9 number of PPAs for different capacity for the project activity	Project participant
11.	MSEDCL	Sample JMRs for the project activity	NA	Project participant
12.	NA	Telephonic interviews with PP and onsite personnels	08/11/2019	NA

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

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

FAR ID	01	Section no.	E.2	Date : 07/11/2019
Description of FAR				
<i>There is no FAR from the validation/previous verifications of the project activity</i>				
Project participant response				Date : DD/MM/YYYY
NA				
Documentation provided by project participant				
NA				
DOE assessment				Date: DD/MM/YYYY
NA				

Table 2. CL from this verification

CL ID	02	Section no.	D.1	Date : 07/11/2019
Description of CL				
<i>PP requested to submit commissioning certificates, Sample JMRs and PPA for the project activity.</i>				
Project participant response				Date : 11/11/2019
1. Commissioning Certificates, PPA and Sample JMRs have been submitted to the assessment team.				
Documentation provided by project participant				
1. Commissioning Certificates 2. PPA 3. JMRs				
DOE assessment				Date: 12/11/2019
PP has submitted commissioning certificates for all the WTGs involved in the project activity. Further, PP has also submitted PPAs for the projects activities and sample JMRs. Thus CAR closed.				

Table 3. CAR from this verification

CAR ID	03	Section no.	D.1	Date : 07/11/2019
Description of CAR				
<i>Following inconsistencies were observed in the revised PDD:</i>				
1. Date of registered PDD of 1 st crediting period not traceable in track change mode in the PDD submitted for renewal of crediting period.				
2. Alteration of the PDD Form is not allowed. Appendix 8 not inline with PDD form and guidelines to complete PDD form. Corrections requested.				
Project participant response				Date : 11/11/2019
1. Date of registered PDD of 1 st crediting period is now traceable in track change mode in the PDD submitted for renewal of crediting period.				
2. Appendix 8 is now not a part of the registered PDD. Corrections have been made. Coordinates of wind turbines have been moved to A.2.				
Documentation provided by project participant				
1. Project Design document version 6				
DOE assessment				Date: 12/11/2019
1. PP has submitted revised updated PDD for crediting period renewal in track change with clear traceability of dates from registered PDD version to latest one.				
2. Updated PDD is now submitted in track changes without alteration in format and updations/revisions are traceable.				
CAR closed.				

CAR ID	04	Section no.	D.2	Date : 07/11/2019
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Description of CAR	
<i>Reference to the tool to demonstrate additionality is not matching with registered PDD as the re-assessment of additionality is not carried out for the project activity. Corrections requested.</i>	
Project participant response	Date : 11/11/2019
1. Reference to the tool to demonstrate additionality has been updated in the PDD version 6 and is now matching with registered PDD as the re-assessment of additionality is not carried out for the project activity.	
Documentation provided by project participant	
1. Project Design Document Version 06	
DOE assessment	Date: 12/11/2019
Updated PDD is now revised appropriately for Reference to the tool to demonstrate additionality. CAR closed.	

CAR ID	05	Section no.	D.4	Date : 07/11/2019
Description of CAR				
Correlation between $EG_{PJ,Y}$ and $EG_{facility,y}$ is missing in the PDD.				
Project participant response				Date : 11/11/2019
1. According to the Methodology used (ACM0002 Version 19), The Quantity of net electricity generation that is produced and fed into the grid is represented as $EG_{PJ,y}$. However in the registered PDD the same had been represented as $EG_{facility,y}$. So in order to maintain the consistency $EG_{facility,y}$ has been used in the PPD Version 06. The same clarification has been incorporated in the PDD Version 06 section B.6.1.				
Documentation provided by project participant				
1. Project Design document version 06				
DOE assessment				Date: 12/11/2019
Appropriate corrections have done in Section B.6.1 of the PDD and being greenfield project $EG_{PJ,Y} = EG_{facility,y}$ as per the applied methodology. CAR closed.				

CAR ID	06	Section no.	D.7	Date : 07/11/2019
Description of CAR				
Section A.4 of the revised PDD lack details of other parties involved.				
Project participant response				Date : 11/11/2019
1. All the project participants along with the other parties involved have now been incorporate in the PPD Version 06.				
Documentation provided by project participant				
1. Project Design Documents Version 06				
DOE assessment				Date: 12/11/2019
Other parties involved are now included in the PDD. CAR closed.				

CAR ID	07	Section no.	D.7	Date : 07/11/2019
Description of CAR				
PP requested to submit updated MOC for the project activity.				
Project participant response				Date : 11/11/2019
1. There has been no change in the MOC since the last crediting period. Hence the latest MoC can be referred from the webpage of the project activity. https://cdm.unfccc.int/Projects/DB/BVQI1354817285.58/view				
Documentation provided by project participant				
1. CDM 8606: Wind Power Project at Vaspeta, Maharashtra. Web-link: https://cdm.unfccc.int/Projects/DB/BVQI1354817285.58/view				
DOE assessment				Date: 12/11/2019
As the MOC available on UNFCCC project webpage is valid, new MOC not required. CAR closed.				

Table 4. FAR from this verification

Table 4. FAR from this verification				
FAR ID	08	Section No.		Date : DD/MM/YYYY
Description of FAR				
There is no FAR from this verification				
Project participant response				Date : DD/MM/YYYY
NA				
Project participant response				

NA	
Project participant response	Date: DD/MM/YYYY
NA	
Project participant response	

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Document information

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