




**Validation report form for post-registration changes for  
CDM project activities  
(Version 03.0)**

BASIC INFORMATION	
<b>Title and UNFCCC reference number of the project activity</b>	Wind power project in Maharashtra by TVS Energy Limited (UNFCCC reference number: 8551 <sup>1</sup> )
<b>Process track</b>	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
<b>Version number of the validation report</b>	02
<b>Completion date of the validation report</b>	09/12/2022
<b>Type(s) of PRCs</b>	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation project activities
<b>Version number of PDD to which this report applies</b>	10
<b>Project participants</b>	Green Infra BTV Limited (Private Entity) <sup>2</sup>
<b>Host Party</b>	India
<b>Applied methodologies and standardized baselines</b>	Applied Methodology: <u>ACM0002 Version 12.3.0 Consolidated baseline methodology for grid-connected electricity generation from renewable sources</u> <sup>3</sup> Standardized baseline: Not Applicable
<b>Mandatory sectoral scopes</b>	01 -
<b>Conditional sectoral scopes, if applicable</b>	NA

<sup>1</sup> <https://cdm.unfccc.int/Projects/DB/DNV-CUK1354626555.71/view?cp=1>

<sup>2</sup> <https://cdm.unfccc.int/Projects/DB/DNV-CUK1354626555.71/view>

<sup>3</sup> <https://cdm.unfccc.int/UserManagement/FileStorage/4W1SCKX3EMPO6AYGRJUTD7BQ8IVN0H>

<b>Name and UNFCCC reference number of the DOE</b>	LGAI Technological Center, S.A. (Applus+ Certification) UNFCCC Ref. No.: E-0032
<b>Name, position and signature of the approver of the validation report</b>	Mr. Agustín Calle de Miguel <i>Applus+ Certification CDM Technical Manager</i> Signature: 

**SECTION A. Executive summary**

Project proponent - Green Infra BTV Limited <sup>4</sup> had developed 25.5 MW wind farm at villages Kaledhon, Mulikwadi and Panchwad in district Satara and villages Vibhutwadi and Kurundwadi in district Sangli, Maharashtra India . The project consists of 17 WEGs (Wind Electric Generators) of capacity 1500 kW each. The project generates clean electricity which is supplied to the Indian grid.

The Project utilizes Vensys 82 Wind Energy Generators (WEGs) of ReGen Powertech Private Limited (RPPL). The project harnesses renewable resources (wind) in the region, thereby displacing non-renewable fossil resources resulting to sustainable economic and environmental development. The WEGs are connected to the transformer (33 kV / 690 V) at the yard, and this is in turn fed electricity to the pooling substation (220 kV / 33 kV).

The project details are as below:

WTG Location	Villages	Taluka	District	Date of commissioning <sup>9/</sup>
RP67_P	Vibhutwadi	Aatpadi	Sangli	17/09/2012
RP68_P				17/09/2012
RP69_P				17/09/2012
RP70_P				17/09/2012
RP71_P				17/09/2012
RP72_F	Vibhutwadi and Kurundwadi	Aatpadi & Khanapur		17/09/2012
RP73_F				17/09/2012
RP74_F				17/09/2012
RP75_F				17/09/2012
RP76_F				17/09/2012
G3	Kaledhon	Khatav	Satara	30/05/2012
G5				30/05/2012
G6				30/05/2012
N3	Mulikwadi		Satara	31/03/2012
N2	Mulikwadi			17/09/2012
RP_11P	Panchwad		Satara	31/03/2012
RP_11Pb				30/05/2012

The project is expected to generate average annual 50,997 MWh electricity per year leading to emission reductions of 48,590 tonnes of CO<sub>2e</sub> per year and 340,130 tCO<sub>2e</sub> during 1<sup>st</sup> crediting period of 7 years.

The project activity is in line with the sustainable development priority of the country.

**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, version 12.3.0<sup>7/</sup>. The validation was based on the requirements in the “CDM validation and verification standard for project activities, version 03.0<sup>9/5/</sup>”.

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.

<sup>4</sup> The project is now managed by Green Infra BTV Limited as confirmed through latest Modalities of communication available at project CDM webpage.

**Validation Process:** The project assessment is based on the “CDM validation and verification standard for project activities, version 03.0” for the project activity and is conducted using standard auditing techniques to assess the correctness of the information provided by the project participants. Before the assessment begins, members of the team covering the technical scope(s), sectoral scope(s), and relevant host country experience for evaluating the CDM project activity are appointed.

Following are the task performed by the assessment team:

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

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

In order to ensure transparency, assumptions must be clear and stated explicitly and background material must also be referenced.

**Appointment of the assessment team**

According to the applicable sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed an assessment team in compliance with the Contract Review and Assessment Team appointment rules in the internal Quality Management System of Applus+ Certification as well as in compliance with the applicable requirements in the Accreditation Standard.

The composition of the Assessment Team (Applus+ Certification’s validation team) has been approved by Applus+ Certification during the Contract Review process ensuring that the required skills and capabilities are covered.

The qualification levels for Assessment Team members that are assigned by aforementioned appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A).
- Technical Expert (TE).
- Technical Reviewer (TR).
- Any of the above-mentioned roles in training (iT, e.g. AiT for auditor in training).

The Sectoral Scopes / Technical Areas required knowledge linked to the applied methodology(ies) is covered by the Assessment Team as shown below:

Name	Role	SS Coverage	TA Coverage	Financial aspect	Host country experience
Mr. Atul Takarkhede	LA/TE	YES	YES	YES	YES
Mr. Deepak Pundlik	A	YES	YES	NO	YES
Mr. Simon Shen	TR	YES	YES	NA	NA

**Document review**

The Project Design Document submitted by the project participants was reviewed against the approved methodology<sup>/7/</sup> and other relevant criteria<sup>/5/6/8/</sup> to verify the correctness, credibility, and interpretation of the presented information. Furthermore, a cross-check between information provided and information from other sources has been done. Please refer Appendix 3 of this report.

**Follow-up interviews**

Applus+ Certification performed interviews, telephone conferences with project stakeholders to confirm selected information and to resolve issues identified in the document review.

**Resolution of Clarification and Corrective Action Request**

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

The final revised PDD version 10 dated 09/12/2022<sup>3/</sup> submitted by PP serves as the basis for the final assessment presented. Additional changes to the project during the validation process are not considered to be significant with respect to the main CDM objectives. The two CDM main objectives are the reduction of anthropogenic GHG emissions and the contribution of sustainable development to the host country.

**Internal quality control**

As final step of a validation of the final documentation including the validation report and the checklist have to undergo an internal quality control by the technical review committee, i.e. each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one to avoid any conflict of interest.

After confirmation of the PP the validation opinion and relevant documents are submitted to the EB through the UNFCCC web-platform.

**Conclusion**

Applus+ Certification has performed a validation for post registration changes of the “Wind power project in Maharashtra by TVS Energy Limited”. The validation was performed on the basis of UNFCCC criteria and host country criteria given to provide for consistent project operations, monitoring and reporting.

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

Applus+ Certification has received a confirmation from the host Party that the project activity assists it in achieving sustainable development.

The validation has been performed following the requirements of the CDM VVS for project activities, version 03.0 for the project activity and on the basis of the contractual agreement. The single purpose of this report is its use during the post registration changes approval process as part of the CDM/UNFCCC project cycle.

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

**B.1. Validation team member**

No.	Role	onserv 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	Validation findings
1.	Lead Auditor /Technical Expert	OR	Takarkhede	Atul	True Quality Certifications private Limited-	Yes	Yes	Yes	Yes

					Outsourced entity				
2	Auditor	OR	Pundlik	Deepak	True Quality Certifications private Limited- Outsourced entity	Yes	Yes	Yes	Yes

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1	Technical reviewer	EI	Shen	Simon	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustín	Applus+ Certification

## SECTION C. Means of validation

### C.1. Desk/document review

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

### C.2. On-site inspection

The post registration changes to the project involves corrections in the PDD and changes to the registered monitoring plan.

The assessment for the post registration changes was in parallel with the issuance track. An on-site inspection was carried out in compliance with UNFCCC guidelines and has taken alternative measures to arrive at conservative estimation of emission reductions achieved, applying standard auditing techniques for validation, as referred in section 9.1.3 of the “CDM validation and verification standard for project activities, version 03.0” to verify information and compliance with applicable requirements to the extent possible, to ensure the completeness and credibility of the audit.

Duration of on-site inspection: 17/05/2022				
No.	Activity performed during on-site audit	Site location	Date	Team member
1.	<p>a. Assessment of nature and extent of the actual changes,</p> <p>b. Determine whether this description accurately reflects the implementation, operation and monitoring of the modified CDM project activity</p> <p>c. Assess the impacts of the actual changes on the monitoring plan, the level of accuracy of the monitoring activity, the applied methodologies, the applied standardized baselines and the other applied methodological regulatory documents</p>	District: Satara and Sangli, State: Maharashtra, India	17/05/2022	Dr. Atul Takarkhede/ Mr. Deepak Pundlik

### C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	GL	Mr. Aditya	Manager-Corporate (PP)- Green Infra BTV Limited (Semb Corp <sup>5</sup> )	17/05/2022	Project design, monitoring, proposed changes in the PDD and corrections	Dr. Atul Takarkhede Mr. Deepak Pundlik
2.	Mali	Mr. Manoj	Site Engineer, (RPPL)			

#### C.4. Sampling approach

Not Applicable.

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

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	01	-	--
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents	--	--	--
Corrections	--	--	--
Changes to the start date of the crediting period	--	--	--
Inclusion of a monitoring plan	--	--	--
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents	--	03	--
Changes to the project design	--	--	--
Changes specific to afforestation and reforestation project activities	--	--	--
Others (please specify)	--	--	--
<b>Total</b>	<b>01</b>	<b>03</b>	<b>00</b>

### SECTION D. Validation findings

#### D.1. Compliance with PDD form

<b>Means of validation</b>	The guideline for completing CDM form version 12.0 for project activity is checked by the assessment team.
<b>Findings</b>	CL 01 was raised and closed successfully during the validation process. Please refer Appendix 4 for the detail closure of the CL.
<b>Conclusion</b>	PP has used the latest version 12.0 available in the UNFCCC site for preparing the revised PDD which is different from the version used for the registered PDD. DoE confirms that the information transferred from registered PDD is materially the same in the latest version <sup>5/</sup> . The project activity description is in accordance to the PDD form, documents submitted for PRC and thus the same is acceptable to the assessment team.

<sup>5</sup> <https://www.sembcorpenergyindia.com/assets/Document/GIWEL/Annual%20Report%202020%20-%202021.pdf> Green Infra BTV Power is a subsidiary of Sembcorp Energy India Limited

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

<b>Means of validation</b>	The post registration changes do not fall under this category.
<b>Findings</b>	The post registration changes do not fall under this category.
<b>Conclusion</b>	The post registration changes do not fall under this category.

## D.3. Corrections

<b>Means of validation</b>	Assessment team checked the registered PDD 05 dated 29/11/2012. Also, onsite visit was carried out by the validation team to check the implementation status of the project activity, location and the monitoring practice & instrumentation installed for the project activity.
<b>Findings</b>	CAR 01 raised and closed successfully during the validation process. Please refer Appendix 4 for the detail closure of the CAR.
<b>Conclusion</b>	<p>Following corrections were carried out in the revised PDD version 10 dated 09/12/2022 due to proposed PRC:</p> <ol style="list-style-type: none"> <li>1. PP has made corrections in revised PDD that NEWNE grid is become Indian grid as per current India's scenerio.</li> <li>2. Due to new template format of the PDD version 12.0 of UNFCCC following text are added :</li> </ol> <p><b>Cover page:</b> Assessment team confirms that Completion of additional fields namely Project participant(s), Host Party, Sectoral scope and selected methodology(ies), mandatory and conditional sectoral scope and Estimated amount of annual average GHG emission reductions is in line with new PDD template.</p> <p>Also section F as per the new PDD template is now included which mentiones the details of the Host country approval. PP has received the letter of approval from the Host Country DNA vide Letter No. 4/12/2012-CC (par 1) dated 30/12/2012. The same is checked from the UN home page as well (<a href="https://cdm.unfccc.int/Projects/DB/DNV-CUK1354626555.71/view?cp=1">https://cdm.unfccc.int/Projects/DB/DNV-CUK1354626555.71/view?cp=1</a> ) and found correct.</p> <p><b>Section A.6 has been updated as per the latest PDD template.</b> History of the project activity have been included in section as per the requirements of the new template. Assessment team checked the same with commissioning certificates and project UN webpage and found correct. Further, assessment team confirms that the proposed CDM project activity is registered as a CDM project activity with UN reference number as UN:8551. This is a registered CDM project activity with fixed crediting period and project exists in the same geographical location as the proposed registered CDM project activity.</p> <p><b>Section A.7 has been updated as per the latest PDD form:</b> The capacity of the project activity being 25.5 MW which is more than 15 MW type 1 limit and thus it qualifies as a large-scale project activity. Therefore section A.7 i.e. De-bundling criteria is justified appropriate for the present project activity.</p> <p>Name of Indian Ministry responsible for stipulating guidelines for sustainable development in India (i.e., <b>Ministry of Environment and Forests, Govt. of India</b>) is updated to <b>Ministry of Environment, Forest and Climate Change (MoEFCC)</b>.</p>

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

<b>Means of validation</b>	The post registration changes do not fall under this category.
<b>Findings</b>	The post registration changes do not fall under this category.
<b>Conclusion</b>	The post registration changes do not fall under this category.

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

<b>Means of validation</b>	The post registration changes do not fall under this category.
<b>Findings</b>	The post registration changes do not fall under this category.
<b>Conclusion</b>	The post registration changes do not fall under this category.

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

<b>Means of validation</b>	Assessment team checked the revised PDD version 10 dated 09/12/2022.			
<b>Findings</b>	CAR 01,02 and 03 was raised and closed successfully during the validation process. Please refer Appendix 4 for the detail closure of the CARs.			
<b>Conclusion</b>	PP has included following permanent changes to the registered monitoring plan.			
	Parameters as per old PDD	Parameters as per new PDD	Reason	DOE Assessment
	In section B.7.1 parameter - $EG_{feeder,i}$ , $EG_{CM,WEG,PP,feeder,i}$ & $EG_{CM,other,WEG,feeder,i}$ were mentioned	The parameter is no longer relevant to project activity hence not included in revised PRC PDD	These parameters are no longer following at the site as not relevant to present site practice.	During site visit and based on the submitted documents, it was observed that monitoring of the parameters is not required for electricity generation calculation and same is also not required as per the methodology. Hence this change is accepted. Assessment team further confirmed that the change complies with the para 238 and 239 of "CDM project standard for project activities", version 03.0.
	Details of multiplication by $EKVAH\%$ is not given in previous PDD	In section B.7.3 Multiplication by $EKVAH\%$ - in some cases of readings of monthly Export and import value can be calculate by multiplying the $lkwh$ and $Ekwh$ with $EKVAH\%$ in the monthly JMR, has been included.	This method are in practice to calculate monthly electricity generation.	As observed during document review, during JMR preparation, import and export values are multiplied by $EKVAh\%$ to arrive at final values. These values are reflected in JMR and same are considered for ER calculation. The calculated value would be conservative and hence found appropriate. Assessment team further confirmed that the change comply with the para 238 and 239 of "CDM project standard for project activities", version 03.0.
In registered PDD Apportioning procedure were not concluded	In section B.7.3 Apportioning procedure added to the monitoring plan	in case of mis-match between dates of the JMRs of first & last months and start & end dates of this monitoring period	PP has added apportioning procedure in case of mis match between first and last date of monitoring period and corresponding billing cycle. The supporting documents and the calculation presented in the MR and PDD for PRC is checked by the assessment team and the procedure was found correct and conservative. Assessment team further confirmed that the change comply with the para 238 and 239 of "CDM project standard for project activities", version 03.0.	
Assessment team confirms that the permanent changes to the registered				

	<p>monitoring plan described in the revised PDD are in compliance with the applied methodology, and the other applied methodological regulatory documents in line with para 297 of CDM VVS for PA, version 3.0.</p> <p>Assessment team confirms that the permanent changes to the registered monitoring plans not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions or net anthropogenic GHG removals in line with para 298 of CDM VVS for PA, version 3.0. DoE confirmed that conservative assumptions or discount factors to the calculations are applied which ensured that GHG emission reductions or net anthropogenic GHG removals will not be over-estimated as a result of the permanent change or the permanent deviation.</p> <p>Assessment team confirms that the permanent changes or the permanent deviation comply with the relevant requirements in the “CDM project standard for PA, version 3.0”<sup>5/</sup>.</p>
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**D.7. Changes to the project design**

<b>Means of validation</b>	The post registration changes do not fall under this category.
<b>Findings</b>	The post registration changes do not fall under this category.
<b>Conclusion</b>	The post registration changes do not fall under this category.

**D.8. Changes specific to afforestation and reforestation project activities**

<b>Means of validation</b>	The post registration changes do not fall under this category.
<b>Findings</b>	The post registration changes do not fall under this category.
<b>Conclusion</b>	The post registration changes do not fall under this category.

**SECTION E. Internal quality control**

As final step of a validation of the final documentation including the validation report and the checklist have to undergo an internal quality control by the technical review committee, i.e. each report has to be finally approved either by the head of the technical review committee or the deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one to avoid any conflict of Interest.

After confirmation of the PP the validation opinion and relevant documents are submitted to the EB through the UNFCCC web-platform.

**SECTION F. Validation opinion**

Applus+ Certification has performed a validation of Post Registration Changes of the “Wind power project in Maharashtra by TVS Energy Limited”. The PRC validation was performed on the basis of UNFCCC criteria and host country criteria, to provide for consistent project operations, monitoring and reporting.

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

Applus+ Certification has received a confirmation from the host Party that the project activity assists it in achieving sustainable development.

By displacing fossil fuel-based electricity with electricity generated from a renewable source, the project results in reductions of CO<sub>2</sub> emissions that are real, measurable and give long-term benefits to the mitigation of climate change. An analysis of the investment and technological barriers demonstrates that the project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of annual emission reductions of 48,590 tCO<sub>2e</sub> per year.

Applus+ Certification confirms that the proposed changes do not adversely affect the conclusion of the validation report of the registered PDD with regards to;

1. The applicability and application of the applied methodology
2. The project boundary and any associated leakages
3. The compliance of the monitoring plan with the applied methodology, tools applied
4. The level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan
5. The additionality of the registered CDM project activity
6. The scale of the registered CDM project activity

The validation has been performed following the requirements of the latest version of the CDM validation and verification standard for project activities, version 03.0 and on the basis of the contractual agreement. The single purpose of this report is its use during the approval process for post registration changes as part of the CDM/UNFCCC project cycle.

## Appendix 1. Abbreviations

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction(s)
CEA	Central Electricity Authority
CL	Clarification Request
CM	Combined Margin
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	Carbon Dioxide Equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EF	Emission Factor
ER	Emission Reductions Sheet
GHG	Greenhouse Gas(es)
GWP	Global Warming Potential
FAR	Forward Action Request
JMR	Joint Meter Reading
MSEDCL	Maharashtra Electricity Distribution Company Limited
MR	Monitoring report
OM	Operating Margin
PDD	Project Design Document
PP	Project Participant
PPA	Power Purchase Agreement
UNFCCC	United Nations Framework Convention on Climate Change
WEG	Wind Electric Generator

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

1. **Dr. Atul Takarkhede** is Ph.D. (Environmental Sciences) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical papers related to environmental sciences. He counts with more than 11 years of experience in field of Environmental Auditing, consulting and accreditation. He is an expert in ISO 9001-14001, CO2/GHG Reporting, Carbon Foot Print, Energy, Water and Waste Management reporting for organizations' environmental performance. His professional portfolio is mainly related with carrying out EIA, conducting QA/QC of EIA Reports; conducting environmental/water audits; NABET requirements appliance, functional area expert in Water Pollution & Solid & Hazardous Waste management among others. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. Currently he is associated with True Quality Certifications Private Limited and empanelled with Applus+ Certification to carry out GHG audits in the aforementioned schemes.
2. **Mr. Deepak Pundlik** has experience in climate change, waste management and environmental management. After completing Masters in Environment Sciences from Pune university, He has worked in waste management field. As a GHG consultant, He handled projects in renewable energy, waste management sectors during his stint with companies - MITCON and Thermax. Post Thermax, Deepak was involved in organic farming research project with Tata Institute of Social Sciences. As a GHG auditor, He has validated/verified projects under CDM/VCS/GS and GCC mechanisms from renewable energy, energy demand, waste management sectors.
3. **Mr. Simon Shen** (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD for 3.5 years before he joined Applus+. Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.

### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	PP	Registered PDD	Version 05 dated 29/11/2012	Other
2.	SGS	Validation Report	Version 01 dated 18/05/2012	Other
3.	PP	Initial CDM PDD with post registration changes  Final CDM PDD with post registration changes	Version 07 dated 11/12/2020  Version 10 dated 09/12/2022	Project Participant
4.	Applus+	Contract of the project participant with the DOE	-	Project participant
5.	UNFCCC	CDM Project standard for project activities  CDM validation and verification standard for project activities  Article 12 of the Kyoto Protocol  CDM modalities and procedures	Version 03.0  Version 03.0	Other
6.	UNFCCC	Guidelines for Application of materiality in verifications	Version 2.0	Other
7.	UNFCCC	Approved methodology; ACM0002 - Consolidated baseline methodology for grid-connected electricity generation from renewable sources	Version 12.3.0	Other
8.	UNFCCC	CDM PDD form	Version 12.0	Other
9.	MSEDCL	Commissioning Certificates		Project participant
10.	MSEDCL	Joint Meter Reading (JMR) issued by MSEDCL  Daily Performance Reports from Central Monitoring System (CMS)	-	Project participant
11.	MSEDCL	Power Purchase Agreements (PPA)	-	Project participant
12.	PP	Invoices for the complete monitoring period raised by PP towards State Utility for sale to grid project	-	Project participant
13.	PP	Actual coordinates for the project activity via GPS meters	-	Project participant

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

Table 1. Remaining FAR from previous validation/verification

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

Table 2. CL from this validation

<b>CL ID</b>	01	<b>Section no.</b>	D.1	<b>Date: 20/11/2022</b>
<b>Description of CL</b>				
PP shall crosscheck and confirm the correctness of all the links/ references, font types, and sizes for all the references in the entire PRC PDD.				
PP shall check the standard template and mention all the sections A, B, C, D, E appropriately with respect to Font style, size, and alignment of the information provided in entire PRC PDD.				
<b>Project participant response</b>				<b>Date:28/11/2022</b>
All the links/ references, font types, and sizes for all the references in the entire PRC PDD are now corrected and aligned.				
All the sections of PRC PDD is now updated as per the latest template of PDD				
<b>Documentation provided by Project Participant</b>				
PDD PRC Version 09 dated 28/11/2022				
<b>DOE assessment</b>				<b>Date: 30/11/2022</b>
Revised PDD was checked and found appropriate.				
CL is closed.				

Table 3. CARs from this validation

<b>CAR ID</b>	01	<b>Section no.</b>	D.6	<b>Date: 20/11/2022</b>
<b>Description of CAR</b>				
PP has revised PDD to the latest information for tools and applicable CEA database for ER calculation. However, the PDD is being revised for PRC and not for the revision in the tool version. PP shall use the information which is presented in the registered PDD and shall only add that information which is required due to PRC.				
<b>Project participant response</b>				<b>Date:28/11/2022</b>
Tools has used for the revision of PDD for PRC are now taken as per registered PDD.				
<b>Documentation provided by Project Participant</b>				
PDD PRC Version 09 dated 28/11/2022				
<b>DOE assessment</b>				<b>Date: 30/11/2022</b>

The revised PDD version 09 mentions the references and the values there-in in line with the registered PDD which is checked and confirmed.

CAR is closed.

<b>CAR ID</b>	02	<b>Section no.</b>	D.6	<b>Date:</b> 20/11/2022
<b>Description of CL</b>				
PP shall crosscheck and confirm the value mentioned in the Estimated amount of annual average GHG emission reductions.				
PP shall crosscheck and confirm the value mentioned in Section A.1 for annual Green House Gas (GHG) reductions estimated.				
<b>Project participant response</b>				<b>Date:</b> 28/11/2022
Value mentioned in the Estimated amount of annual average GHG emission reductions is now cross checked and consistent throughout the PRC PDD.				
<b>Documentation provided by Project Participant</b>				
PDD PRC Version 09 dated 28/11/2022				
<b>DOE assessment</b>				<b>Date:</b> 30/11/2022
Revised PDD version 09 was checked and found appropriate as it mentions the information correctly. Hence this CAR is closed.				

<b>CAR ID</b>	03	<b>Section no.</b>	D.6	<b>Date:</b> 20/11/2022
<b>Description of CL</b>				
Section B.4 mentions applicability of Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period. It is not clear why this is applied when the current PDD is for the 1 <sup>st</sup> CP and undergoing PRC for the 1 <sup>st</sup> CP ?				
<b>Project participant response</b>				<b>Date:</b> 28/11/2022
PDD for PRC has now been revised and Section B.4 mentions the applicability as per the registered PDD which has formed for the 1 <sup>st</sup> CP.				
<b>Documentation provided by Project Participant</b>				
PDD PRC Version 09 dated 28/11/2022				
<b>DOE assessment</b>				<b>Date:</b> 30/11/2022
PP has removed applicability of tool as it is not applicable for current CP which is appropriate.				
CAR is closed.				

Table 4. FAR from this validation

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

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**Document information**

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none"><li>• Ensure consistency with version 03.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN);</li><li>• Make editorial improvements.</li></ul>
03.0	31 October 2017	Revision to align with the requirements in the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.

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Decision Class: Regulatory  
Document Type: Form  
Business Function: Registration  
Keywords: post-registration change, project activities, validation report

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