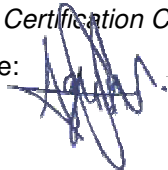




**Verification and certification report form for
CDM project activities
(Version 04.0)**

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	Bundled Wind Power Project by Gangamai Industries and Construction Limited (UNFCCC Ref. No. 9330)		
Scale of the project activity	<input type="checkbox"/> Large-scale <input checked="" type="checkbox"/> Small-scale		
Version number of the verification and certification report	02		
Completion date of the verification and certification report	24/06/2021		
Monitoring period number and duration of this monitoring period	02 (01/03/2014 to 31/07/2019; both days included)		
Version number of the monitoring report to which this report applies	03		
Crediting period of the project activity corresponding to this monitoring period	31/12/2012 to 30/12/2022 (Fixed)		
Project participants	M/s Gangamai Industries and Construction Limited		
Host Party	India		
Applied methodologies and standardized baselines	AMS-I.D "Grid connected renewable electricity generation" (Version 17) Standardized Methodology: Not Applicable		
Mandatory sectoral scopes	1: Energy industries (renewable - / non-renewable sources)		
Conditional sectoral scopes, if applicable	NA		
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	93,913 tCO ₂ e		
Certified amount of GHG emission reductions or GHG removals for this monitoring period	Amount before 1 January 2013	Amount from 1 January 2013 until 31 December 2020	Amount from 1 January 2021
	0 tCO ₂ e	73,990 tCO ₂ e	0 tCO ₂ e
Name and UNFCCC reference number of the DOE	LGAI Technological Center, S.A. (Applus+ Certification) UNFCCC Ref. No.: E-0032		

Name, position and signature of the approver of the verification and certification report	<p>Mr. Agustín Calle de Miguel</p> <p><i>Applus+ Certification CDM Technical Manager</i></p> <p>Signature: </p>
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SECTION A. Executive summary

M/s Gangamai Industries and Construction Limited has commissioned LGAI Technological Center, S.A. (Applus+ Certification) – Hereinafter referred as Applus+ Certification to perform a verification of the “Bundled Wind Power Project by Gangamai Industries and Construction Limited” in India. The project activity located in Maharashtra & Rajasthan states of India.

The project activity uses renewable energy (wind) as a clean fuel to generate electrical energy. The project activity involves 10.9 MW wind power project which comprises of 6 WTGs of varying capacity (4 x 2.1 MW and 2 x 1.25 MW). The WTGs are located in Maharashtra and Rajasthan state in India. During this monitoring period 77,655.94 MWh of electricity displaced from NEWNE grid (now INDIAN grid), which otherwise been produced through fossil fuels-based power plant, connected to the grid. The project activity is a green field project activity & generates electricity using wind energy.

Assessment team also observed that there is no change in design/technical parameter as mentioned in the registered PDD and thus the same is found correct. No design change observed for the current monitoring period and the rated capacity as mentioned in the registered PDD is implemented onsite and thus the same is acceptable and correct for the current monitoring period. No PRC change is thus envisaged for the current monitoring period.

During the monitoring period 01/03/2014 to 31/07/2019; (inclusive of both days) the project activity has achieved emission reductions 73,990 tCO₂e.

1. Verification Scope: The verification scope encompasses an independent and objective review and ex-post determination of the monitored reductions in GHG emissions by the DOE. The verification is based on the submitted monitoring report, the validated and registered PDD as well as its validation report, the applied monitoring methodology, relevant decisions, clarifications and guidance from the CMP and the EB and any other information and references relevant to the project activity's resulting emission reductions. These documents are reviewed against the requirements of the Kyoto Protocol, the CDM Modalities and Procedures and related rules and guidance. Based on the requirements in the “CDM validation and verification standard for project activities, Version 02.0”, Applus+ Certification has applied a rule-based approach for the verification of the project. The principles of accuracy, completeness, relevance, reliability and credibility were combined with a conservative approach to establish a traceable and transparent verification opinion. The verification considers both quantitative and qualitative information on emission reductions. The verification is not meant to provide any consultancy towards the client. However, stated requests for clarifications, corrective and/or forward actions may provide input for improvement of the monitoring activities.

2. Methodology:

LGA Technological Center, S.A. (Applus+ Certification) – Hereinafter referred as Applus+ Certification - approach to the verification is a two-stage process.

In the 1st stage, Applus+ Certification completed a strategic review and risk assessment of the project's activities and processes in order to gain a full understanding of:

- Activities associated with all the sources contributing to the project emissions and emission reductions, including leakage if relevant;
- Protocols used to estimate or measure GHG emissions from these sources;
- Collection and handling of data;
- Controls on the collection and handling of data;
- Means of verifying reported data; and
- Compilation of the monitoring report.

Applus+ Certification used a Periodical Verification Checklist which, based on the risk-based assessment of the parameters and data collection and handling processes for each of those parameters, describes the verification approach and the sampling plan.

3. Desk Review

In the 2nd stage, using the Verification Checklist, Applus+ Certification verified the implementation of the monitoring plan and the data presented in the Monitoring Report for the period in question. This involved a site visit and a desk review of the Monitoring Report. This Verification Report describes the findings of this assessment.

The Monitoring Report version 01 submitted by the PP was made publicly available on the UNFCCC website before the verification activities started. The published MR was assessed based on all the relevant documents. The aim of the assessment in the desk review was to:

- Verify the completeness of the data and the information presented in the MR;
- Check the compliance of the MR with respect to the monitoring plan depicted in the registered PDD and verify that the applied methodology was carried out. Particular attention to the frequency of measurements, the quality of the metering equipment including calibration requirements, and the quality assurance and quality control procedures was paid;

Evaluate the data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

4. Assessment team

According to the sectoral scope / technical area and experience in the sectoral or national business environment, LGAI Technological Center, S.A. (Applus+ Certification) has composed a project assessment team in accordance with the appointment rules in the internal Quality Management System of LGAI Technological Center, S.A. (Applus+ Certification).

The composition of audit team shall be approved by the LGAI Technological Center, S.A. (Applus+ Certification) ensuring that the required skills are covered by the team.

The four qualification levels for team members that are assigned by formal appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A) / Auditor in Training (AiT).
- Technical Expert (TE).
- Technical Reviewer (TR).

The sectoral scope / technical area knowledge linked to the applied methodology/ies shall be covered by the assessment team

Name	Role	SS Coverage	TA Coverage	Financial aspect
Dr. Atul Takarkhede	LA/TE	YES	YES	NA
Mr. Denny Xue	TR	YES	YES	NA

The curriculum vitae of the DOE's Verification team members is provided in Appendix 2 of this report.

5. Review of Documentation:

The Monitoring Report version 01 submitted by the PP was made publicly available on the UNFCCC website before the verification activities started. The published MR was assessed based on all the relevant documents. A cross-check between information provided and information from other sources has been done. A complete list of documents reviewed is available in Appendix 3 of this report.

6. On-site Assessment and follow-up Interviews:

As a part of the verification, the on-site inspection has been performed by the assessment team. The objective of the on-site assessment is to:

- Confirm the implementation and operation of the project;

- Review the data flow for generating, aggregating and reporting the monitoring parameters;
- Confirm the correct implementation of procedures for operations and data collection;
- Cross-check the information provided in the MR documentation with other sources;
- Check the monitoring equipment against the requirements of the PDD and the approved methodology, including calibrations, maintenance, etc.
- Review the calculations and assumptions used to obtain the GHG data and ER;
- Identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters.

The details are mentioned in section D.2 of this report.

7. Quality of Evidences

Sufficient evidence covering the full verification period in the required frequency is available to verify the figures stated in the final MR. The source of the evidences will be discussed in Appendix 3 of this report. Specific cross-checks have been done in cases that further sources were available. The monitoring report's figures were checked by the assessment team against the raw data. The data collection system meets the requirements of the monitoring plan as per the methodology.

8. Reporting of Findings

As an outcome of the verification process, the assessment team can raise different types of findings.

Where a non-conformance arises the assessment team shall raise a Corrective Action Request (CAR). A CAR is issued, where:

- a) Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants;
- b) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;
- c) Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

The assessment team shall raise a Clarification Request (CL) if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met.

All CARs and CLs raised during verification shall be resolved prior to submitting a request for issuance.

Forward Action Requests (FARs) may be raised during verification for actions where the monitoring and reporting require attention and/or adjustment for the next verification period. All the CARs/CLs/FARs are being discussed in Appendix 4 of this report.

9. Internal Quality Control

As a final step of verification, the final documentation including the verification report has to undergo an internal quality control by the Technical Reviewer. Each report has to be finally approved either by the DOE's Technical Manager or the Deputy. In case one of these two persons is part of the assessment team, the approval can only be given by the person who is not a part of the assessment team. If the documents have been satisfactorily approved, the request of issuance is submitted to CDM EB along with the requisite documents.

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Verification findings
1.	Lead Auditor/Technical Expert	OR	Takarkhede	Atul	True Quality Certifications Private Limited- Outsourced entity	Yes	No	Yes	Yes

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

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

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

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Human errors: Readings from Meters (if not automatic)	LOW	Human error is likely to occur if the monitoring personnel are not trained well or inexperienced in data recording procedures and monitoring processes.	All the personal are well trained to monitor and collect data and thus risk associated with Human error is minimized. Assessment team checked the training records to confirm that all the personal are well trained to handle the activities related to monitoring. Assessment team checked the training records for the complete monitoring period and confirm that the personal are well trained to monitor and collect data for the project activity.
2	Human error: Quantification of emission reduction	LOW	Use of spreadsheets without adequate data control, changes/updates, version tracking, traceability and security	All the JMR (Monthly meter report/Generation Report) sheets and the invoices/Obligation Reports for the complete monitoring period are checked and thus the assessment team confirms that the ER value is conservative and correct.

C.2. Consideration of materiality in conducting the verification

In line with Guidelines for Application of materiality in verifications, the verification team has conducted a complete verification of all the information presented in the monitoring report and data monitored as presented in the emission reduction calculation spread sheet. There are no material errors, overestimation of ER, omission or misstatement.

SECTION D. Means of verification

D.1. Desk/document review

The verification was performed primarily based on the review of the monitoring report and the supporting documentation. This process included review of data and information presented to verify their completeness and review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment used to include calibration requirements, and the QA/QC procedures, and an evaluation of data management and the QA/QC system in the context of their influence on the generation and reporting of emission reduction.

The initial MR Version 01 submitted by the project participant and additional background documents related to the emission reductions are reviewed as an initial step of the verification process. The subsequent step involved the identification of corrective action requests, clarification requests and Forward action request (CAR, CL and FAR) which are presented in Appendix 4 of this report. As a result of these findings, the MR is revised and re-submitted to assessment team. A complete list of all documents and records reviewed is as attached in Appendix 03 of this report.

D.2. On-site inspection

No Physical verification was conducted by the DOE for this CDM verification due to high threat of COVID-19 in entire state of India. Taking into account the rules of relevant national and local authorities (local to the DOE offices as well as to locality of the site visits), World Health Organization (WHO) recommendations, policies of the DOE and other relevant travel restrictions and guidance (for example, a requirement to self-isolate upon return).

Hence, in line with the guidance to relax mandatory site visits by DOEs due to COVID 19 pandemic published by UNFCCC¹, DOE has taken alternative measures to arrive at conservative estimation of emission reductions achieved, applying standard auditing techniques for verification, as referred in section 9.1.3 of the “CDM validation and verification standard for project activities, Version 02”. Moreover, as verified from the ERPA provided by PP, PP has commitment of supplying of CERs to buyer by November 2020. So, the site visit cannot be postponed to a later date. Thus, as per guidance to relax mandatory site visits by DOEs due to COVID 19 pandemic, assessment team have conducted remote audit and used standard auditing techniques to verify information and compliance with applicable requirements to the extent possible, to ensure the completeness and credibility of the audit.

The remote audit was conducted through Skype and audit was attended by Site In-charge of both sites as well as consultants. Details of attendees is given below in section D.3.

The topics discussed during the remote audit is given in below table and explained in detailed latter part.

¹ https://cdm.unfccc.int/newsroom/latestnews/releases/2020/01041_index.html

Duration of on-site inspection: 03/10/2020 (Remote Audit through Skype)				
No.	Activity performed on-site	Site location	Date	Team member
1.	<p>The verification team conducted visit to the project site to confirm the information and to resolve issues identified in the document review. An on-site assessment was conducted as a part of verification activity and involved:</p> <p>1) an assessment of the implementation and operation of the CDM project activity as per the registered PDD</p> <p>2) a review of information flows for generating, aggregating and reporting of the monitoring parameters</p> <p>3) interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the Monitoring Plan</p> <p>4) a cross-check between information provided in the MR and data from other sources</p> <p>5) a check of the monitoring equipment including calibration performance, and observations of monitoring practices against the requirements of the PDD and the applied methodology</p> <p>6) a review of calculations and assumptions made in determining the GHG data and ERs, and</p> <p>7) an identification of QA/QC procedures in place to prevent, or identify and correct, any errors or omissions in the reported monitoring parameters</p>	Rajasthan and Maharashtra States, India	03/10/2020	Dr. Atul Takarkhede

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Chaudhary	Pankaj	Site Incharge	03/10/2020	As mentioned above in section D.2 of this report	Dr. Atul Takarkhede
2.	Divekar	Rajabhau	PP Representative	03/10/2020	As mentioned above in section D.2 of this report	Dr. Atul Takarkhede
3.	Rao	Anjali	EKI Energy Services Pvt. Ltd.	03/10/2020	As mentioned above in section D.2 of this report	Dr. Atul Takarkhede

D.4. Sampling approach

No sampling is used as the verification team has visited site along with the substations. The verification team has reviewed all the documents like commissioning certificates, JMR (monthly reports) sheets, invoices, etc.

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

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	00	01	00
Compliance of the project implementation and operation with the registered PDD	00	00	00
Post-registration changes	00	00	00
Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines	00	00	00
Compliance of monitoring activities with the registered monitoring plan	00	01	00
Compliance with the calibration frequency requirements for measuring instruments	00	01	00
Assessment of data and calculation of emission reductions or net removals	00	01	00
Assessment of reported sustainable development co-benefits	00	00	00
Global stakeholder consultation	00	00	00
Others (please specify)	00	00	00
Total	00	04	00

SECTION E. Verification findings**E.1. Compliance of the monitoring report with the monitoring report form**

Means of verification	The verification team has determined whether the monitoring report was completed using the valid version of the applicable monitoring report form. The verification team has checked whether all the sections of the monitoring report follow the guidelines provided in the template
Findings	CAR 01 was raised during the verification process. Please refer Appendix 4 of this report for the complete closure of the CAR.
Conclusion	The MR was web hosted in version 07.0 of the MR form which is the current and active version in the UN platform. However, during course of verification, the monitoring report has been prepared as per the instructions provided in the template. DOE has made the version 01 of the monitoring report covering the monitoring period 01/03/2014 to 31/07/2019; (both the days included) publicly available through its dedicated interface on the UNFCCC CDM website on 10/09/2019 i.e., before undertaking the site visit for the verification. However, the monitoring report was completed using version 08 following the guidelines contained in the template which is valid and active version of monitoring report at the time of submission of issuance of CERs request. Thus, the verification team has concluded that the monitoring report was completed using the valid version 08 of the applicable monitoring report template and all sections completed inline with the guidelines to complete MR. However, CAR 01 was raised for editorial mistakes, MR template guidelines and supporting documents. CAR was closed on revision of the MR & document submission for this CAR.

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

This is 2nd periodic verification for crediting period of the project activity. NO FAR was raised during the validation & previous verification of the project activity. Same is verified from validation & verification reports.

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

Means of verification	The verification team determined the conformity of the actual implemented project activity and its operation with the registered project design document. DOE has, by means of a desk/document review and interviews with on-site persons, assessed whether all physical features of the proposed CDM project activity proposed in the registered PDD are in place, and that the project participants have operated the CDM project activity as per the registered PDD.
Findings	There is no CAR/CL raised in this section.

Conclusion

The verification team has reviewed the commissioning certificates to conclude that the capacity of the project is same as mentioned in the registered PDD. The capacity does not change after the registration of the project activity as confirmed by the assessment team during verification remote audit and verified from the commissioning certificates, PPA and JMRs of the project activity.

The project activity is located Maharashtra & Rajasthan States of India. The locations and geo-coordinates are as follows:

WTG	Capacity (MW)	Make Suzlon & model	Owner	Village	Latitude (°N)	Longitude (°E)	Commissioning dates
CK02	2.10	S-88	GIACL	Mandal, Nandurbar District, Maharashtra	21°17'24.3"	74°20'39.8"	27/10/2009
S75	1.25	S-66	GIACL	Sadawagha pur, Satara District, Maharashtra	17°26'25.9"	73°55'35.1"	30/03/2010
MK145	2.10	S-88	GIACL	Tejuva, Jaisalmer District, Rajasthan	27°10'28.5"	70°48'37.9"	31/03/2010
RKB25	2.10	S-88	ASL	Belwa Ranaji, Jodhpur District, Rajasthan	26°28'49.1"	72°31'06.9"	31/01/2010
RKB26	2.10	S-88	ASL	Belwa Ranaji Jodhpur District, Rajasthan	26°29'05.0"	72°31'06.5"	31/01/2010
AK201	1.25	S-66	NC	Chord, Jaisalmer District, Rajasthan	26°45'52.3"	71°07'27.8"	31/03/2010

The above details are checked by the assessment team from commissioning certificates which are issued by statutory agency. Same are found in line with registered PDD. The detail also forms the part of Monitoring report and thus acceptable to the assessment team.

Technical details of the project activity

The total capacity of the project activity is 10.9 MW promoted by Gangamai Industries and Construction Limited (GIACL), Ajeet Seeds Limited (ASL) and Nirman Constructions (NC) located in states of Maharashtra & Rajasthan. This project is grid connected and selling generated electricity to the state electricity board for WTGs CK02, MK145, RKB 25 & RKB 26, AK201 & for S75, the generated electricity is supplied to third party sale. Technical specifications are checked from the turbine manufacturer brochure and found correct in line with registered PDD.

1.25 MW Suzlon S66:

Parameter	Specification
Rated power	1250 kW
Type	3 Blades, Upwind / Horizontal axis
Diameter	66 m
Rotor blade material	Epoxy bonded fibre glass
Swept area	3421 m ²
Frequency	50 Hz
Cooling system	Air cooled
Tower Type	Tubular tower with welded steel plates
Tower height	72 m
Hub Height	74.5 m

Start up wind speed	3 m/s
Nominal wind speed	14 m/s
Max wind speed	22 m/s
Min rotor speed	13.8 rd/min
Max rotor speed	20.7 rd/min

2.10 MW Suzlon S88

Parameter	Specification
Rated power	2100 kW
Type	3 Blades, Upwind / Horizontal axis
Diameter	88 m
Rotor blade material	Epoxy bonded fibre glass
Swept area	6082 m ²
Frequency	50 Hz
Cooling system	Forced oil cooling lubrication system
Tower Type	Tubular tower with welded steel plates
Tower height	77.5 m
Hub Height	80 m
Start up wind speed	4 m/s
Nominal wind speed	14 m/s
Max wind speed	25 m/s
Min rotor speed	15 rd/min
Max rotor speed	17.8 rd/min

The metering arrangement of the energy meter is provided in the MR and found in line with remote audit observations and description in the registered PDD and MR.

The plant undergone scheduled maintenance as per the manufacturer's specifications and no unforeseen incident observed by the assessment team during the monitoring period. The details are checked by the assessment team from the plant log records and found correct.

Project is operating normally and same is verified from the monthly JMRs issued by the state utility.

Based on the documentary evidence of commissioning certificates, PPA, O&M agreement and JMRs DOE concludes that the project was implemented as per the registered PDD.

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents²

Not applicable for present Monitoring period. PP has not applied any type of deviation.

E.4.2. Corrections

Not applicable for present Monitoring period. No correction has been made

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

Not applicable for present Monitoring period. There is no change in start date of crediting period. Same has been verified by assessment team from UNFCCC project's webpage.

E.4.4. Inclusion of a monitoring plan

>> Not applicable for present Monitoring period.

² Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

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

The Post Registration changes for the calibration frequency, changed to once in five years. The change in the monitoring plan is approved during 1st verification and approved on 25/05/2017³.

E.4.6. Changes to the project design

The post registration changes for design change regarding WTG S75 is supplying electricity to third party via national grid through contractual arrangement is approved during 1st verification and approved on 25/05/2017⁴.

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

Not applicable being renewable energy project

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

Means of verification	The verification team determined whether the registered monitoring plan is in accordance with the applied methodology AMS-I. D Grid Connected Renewable Electricity Generation (Version 17) including applicable tools.
Findings	There is no CAR/CL raised in this section.
Conclusion	The verification team is able to confirm that the monitoring plan contained in the registered PDD is in accordance with the approved methodology applied by the project activity, i.e. AMS-I. D Grid Connected Renewable Electricity Generation (Version 17) and its applicable tools. The same is followed onsite and thus assessment team confirms that project activity comply with the requirement of Approved methodology and registered PDD.

E.6. Compliance of monitoring activities with the registered monitoring plan

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The assessment team checked the registered PDD to confirm the ex-ante fixed parameter mentioned in the current monitoring report. Assessment team also interviewed the personal onsite to check further regarding the ex-ante values used for emission reduction calculation.
Findings	CAR 03 was raised during the verification process and closed successfully. Please refer Appendix 4 of this report for the detail closure of the CAR.
Conclusion	<p>EF_{grid,OM,y} ; EF_{grid,BM,y} & EF_{grid,CM,y} are considered as ex-ante fixed parameters. Assessment team checked the values, source of data, choice of data, purpose of the data mentioned in the MR from the registered PDD and confirms that the similar approach was considered for the current monitoring period also. The ex-ante fixed parameters are described below:</p> <ol style="list-style-type: none"> EF_{grid,OM,y}: 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". EF_{grid,OM,y} is computed using the Simple Operating margin CO₂ emission factor. Simple Operating margin CO₂ emission factor is calculated from the weighted average 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. Assessment team checked the registered PDD and found that value considered for emission reduction calculation in this present monitoring period is sourced from the registered PDD. Thus, assessment team conclude that the emission reduction calculation for the present monitoring period is conservative and correct. EF_{grid,BM,y}: Build Margin emissions factor for grid connected power generation in year y calculated using the latest version of "Tool to calculate the emission

³ <https://cdm.unfccc.int/PRCContainer/DB/prcp346790071/view>

⁴ <https://cdm.unfccc.int/PRCContainer/DB/prcp346790071/view>

	<p>factor for an electricity system. Build margin emission factor is the generation-weighted average emission factor of all power plants m during the most recent year y for which generation data is available. Assessment team checked the registered PDD and found that value considered for emission reduction calculation in this present monitoring period is sourced from the registered PDD. Thus, assessment team conclude that the emission reduction calculation for the present monitoring period is conservative and correct.</p> <p>3. EF_{grid,CM,y} : Combined margin CO₂ emission factor for NEWNE grid(Now Indian Grid) in year y calculated by taking data from the Central Electricity Authority using the CM approach as per Tool to calculate emission factor for an electricity system. 75% of OM and 25% of BM are used for calculation of CM of the grid. Assessment team checked the registered PDD and found that value considered for emission reduction calculation in this present monitoring period is sourced from the registered PDD. Thus, assessment team conclude that the emission reduction calculation for the present monitoring period is conservative and correct.</p> <p>The values are as below:</p> <p>EF_{grid,OM,y} = 0.9842 tCO₂e/MWh (As per the registered PDD and CO₂ Baseline Database Version 07 for the Indian Power Sector prepared by Central Electricity Authority)</p> <p>EF_{grid,BM,y} = 0.8588 tCO₂e/MWh (As per the registered PDD and CO₂ Baseline Database Version 07 for the Indian Power Sector prepared by Central Electricity Authority)</p> <p>EF_{grid,CM,y} = 0.9528 tCO₂e/MWh (As per the registered PDD and CO₂ Baseline Database Version 07 for the Indian Power Sector prepared by Central Electricity Authority)</p>
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E.6.2. Data and parameters monitored

Means of verification	The assessment team checked the registered PDD to confirm the ex-post parameter mentioned in the current monitoring report. Assessment team also interviewed the personal onsite to check further regarding the ex-post parameter monitoring and confirms that the same is in line with the registered PDD. AMS-I.D Grid Connected Renewable Electricity Generation (Version 17) which was the applied methodology during the registration of the project is also checked to ensure that monitoring parameter as mentioned in the registered PDD and current MR are in compliance with the methodology.
Findings	CAR 04 was raised during the verification process and closed successfully. Please refer Appendix 4 of this report for the detail closure of the CAR.
Conclusion	<p>As per the registered monitoring plan and requirement of the registered methodology following parameters needs to be monitored:</p> <p>EG_y = Electricity exported to grid by each WTG</p> <p>The electricity exported and imported is noted and recorded monthly from the main and backup meters. The main meter and the backup meters of 0.2s accuracy class are located at substation. The main and backup meters record the electricity exported by all WTGs which are part and also not part of the project activity. Apportioning of electricity supplied to grid by each WTGs or group of WTGs with respect to their owner, is done based on the individual meter readings recorded from the controller panel meter of each WTG and based on the meter reading recorded from the meters situated at connected substations. The import and export data calculated and reported in the JMR/break-up sheet by state utility.</p> <p>The monitoring plan as mentioned in the registered PDD is followed onsite for the present parameter and thus assessment team concludes that the parameter measurement is as per the registered PDD. The electricity supplied to the grid is checked from the JMR and found correct. Moreover, the electricity exported is also cross checked from the Invoices raised as per the requirement of the methodology and registered PDD and it is confirmed that the values are correct. Assessment team thus confirm that the value of 78,733.99 MWh as mentioned in the MR and emission sheet is correct and the same is in compliance with the requirement of Para 364 and 395 (e).</p>

	<p>EC_y = Electricity imported from grid by each WTG</p> <p>The electricity exported and imported is noted and recorded monthly from the main and backup meters. The main meter and the backup meters of 0.2s accuracy class are located at substation. The main and backup meters record the electricity imported by all WTGs which are part and also not part of the project activity. Apportioning of electricity imported to grid by each WTGs or group of WTGs with respect to their owner, is done based on the individual meter readings recorded from the controller panel meter of each WTG and based on the meter reading recorded from the meters situated at connected substations. The import and export data calculated and reported in the JMR/break-up sheet by state utility.</p> <p>The monitoring plan as mentioned in the registered PDD is followed onsite for the present parameter and thus assessment team concludes that the parameter measurement is as per the registered PDD. The electricity imported from the grid is checked from the JMR and found correct. Moreover, the electricity imported is also cross checked from the Invoices raised as per the requirement of the methodology and registered PDD and it is confirmed that the values are correct. Assessment team thus confirm that the value of 1,078.05 MWh as mentioned in the MR and emission sheet is correct and the same is in compliance with the requirement of Para 364 and 395 (e).</p> <p>The net electricity supplied to the grid is the difference between the measured quantities of the grid electricity export and the import by the project activity.</p> <p>However, CAR 02 was raised for submission of JMRs in support of electricity exported and imported by the project activity. CAR was closed on revision of the MR & document submission for this CAR.</p>
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E.6.3. Implementation of sampling plan

Means of verification	The verification assessed whether the compliance of the sampling efforts and surveys with the registered sampling plan in accordance with the "Standard for sampling and surveys for CDM project activities and programme of activities" if PP had applied a sampling approach to determine data and parameters monitored.
Findings	There is no CAR/CL raised in this section.
Conclusion	PP did not apply sampling plan to determine data and parameters monitored during this monitoring period. The verification team has checked all the documents such as JMR (Monthly meter Readings)/ obligation schedules and injection schedule reports, invoice etc. and hence sampling plan was not required. The verification team hereby confirms that are checked all the documents.

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

Means of verification	The verification team determined whether the calibration of the measuring equipment that has an impact on the claimed emission reductions is conducted by the PP at a frequency specified in the registered monitoring plan																				
Findings	CAR 03 was raised during the verification process and closed successfully. Please refer Appendix 4 of this report for the detail closure of the CAR.																				
Conclusion	The metering arrangement is tri-vector bi-directional and 0.2S accuracy class energy meters at the project site. These meters record several parameters including electricity exported & imported. State utility officials to obtain the value of export and import are using these electricity meters and hence Net electricity supplied is calculated based on export, import values.																				
	The details of the Calibration are as follows:																				
	Maharashtra																				
	<table><tr><th>Loc. No.</th><th>Meter Number</th><th>Calibration dates</th><th>New meter No. ⁵</th><th>Date of calibration</th><th>Calibration Compliance</th></tr><tr><td rowspan="2">CK02</td><td>4863438 (Main Meter)</td><td>06/08/2013</td><td>02831474 (Main Meter)</td><td>24/12/2016</td><td rowspan="2">Meet the once in 5 year calibration frequency</td></tr><tr><td>4961776 (Check Meter)</td><td>06/08/2013</td><td>02831475 (Check Meter)</td><td>24/12/2016</td></tr></table>						Loc. No.	Meter Number	Calibration dates	New meter No. ⁵	Date of calibration	Calibration Compliance	CK02	4863438 (Main Meter)	06/08/2013	02831474 (Main Meter)	24/12/2016	Meet the once in 5 year calibration frequency	4961776 (Check Meter)	06/08/2013	02831475 (Check Meter)
Loc. No.	Meter Number	Calibration dates	New meter No. ⁵	Date of calibration	Calibration Compliance																
CK02	4863438 (Main Meter)	06/08/2013	02831474 (Main Meter)	24/12/2016	Meet the once in 5 year calibration frequency																
	4961776 (Check Meter)	06/08/2013	02831475 (Check Meter)	24/12/2016																	

⁵ Meter replacement on 24/12/2016. Both old and new meters tested and calibrated at the time of installation and found working satisfactorily within permissible limits. Records meter replacement issued by state utility submitted by PP.

Loc. No.	Meter Number	Calibration dates	Date of calibration	Calibration Compliance
S75	14796504 (Main Meter)	18/02/2013	02/07/2015	Meet the once in 5 year calibration frequency
	14796505 (Check Meter)	18/02/2013	02/07/2015	

Rajasthan

Location No.	Meter Number	Calibration dates	Date of calibration	Calibration Compliance
MK145	09166172 (220KV)	12/12/2012	29/01/2015	Meet the once in 5 year calibration frequency
	09166170 (220KV)	12/12/2012	29/01/2015	
	1395548 ⁶ (220KV)	-	29/01/2015	
	13195549 (220KV)	-	29/01/2015	
	MSB60428 (33KV)	17/12/2012	25/12/2014	
	MSB60429 (33KV)	17/12/2012	25/12/2014	
RKB 25 & RKB 26	RJB00320 (220KV)	15/01/2014	25/02/2015	
	RJB00319 (220KV)	15/01/2014	25/02/2015	
	RJB73574 (33KV)	20/01/2014	15/05/2018	
	RJB69750 (33KV)	20/01/2014	15/05/2018	
AK201	MSB10311 (220KV)	14/01/2014	13/01/2015	
	MSB10312 (220KV)	14/01/2014	13/01/2015	
	MSB10295 (33KV)	13/01/2014	13/01/2015	
	MSB10296 (33KV)	13/01/2014	13/01/2015	

Calibration of the meter is to be carried out once in five as per registered PDD (Revised for PRC). There is no delayed calibration in the scheduled calibration of meters.

The calibration is done by accredited Laboratory from National Accreditation Board for Testing and Calibration, Govt. of India (<http://www.nablindia.org>) to carry out calibration. Assessment team checked the same and found that the calibration is appropriate and correct as traceability is ensured.

However, CAR 03 was raised for updating details regarding monitoring meters and its calibrations in monitoring report. CAR was closed on revision of the MR & document submission for this CAR.

E.8. Assessment of data and calculation of emission reductions or net removals**E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks**

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the registered CDM project activity. The verification team has checked whether calculations of baseline GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan.
Findings	CAR 04 was raised during the verification process and closed successfully. Please refer Appendix 4 of this report for the detail closure of the CAR.
Conclusion	The baseline is the MWh produced by the project activity multiplied by an emission coefficient (measured in tonnes CO ₂ /MWh) calculated in a transparent and conservative manner as the weighted average emissions (in tonnes CO ₂ /MWh) as described in approved PDD. The baseline emissions for the monitoring period are

⁶ Both main meter (09166172) and check meter (09166170) were replaced by 13195548 (main meter) and 13195549 (check meter) respectively on 29/01/2015. Both old and new meters tested and calibrated at the time of installation and found working satisfactorily within permissible limits. Records meter replacement issued by state utility submitted by PP.

	<p>calculated as follows:</p> $\text{Baseline Emissions (BE}_y\text{)} = \text{EF}_{\text{grid,CM,y}} \times \text{EG}_{\text{BL,y}}$ $= 0.9528 \text{ tCO}_2/\text{MWh} \times 77,655.94 \text{ MWh}$ $= 73,990 \text{ tCO}_2 \text{ (Round down value)}$ <p>As per the methodology Consolidated baseline methodology for grid-connected electricity generation from renewable sources (AMS-I. D Version 17), there is no project activity emissions associated with the project activity as this is a Wind power project and hence PE_y= 0 tCO₂. Further, as per the registered PDD no leakage emissions are considered.</p> <p>Thus, emission reductions are calculated as follow:</p> $\text{Emission reductions} = \text{Baseline emissions} - \text{Project emissions} - \text{Leakage emission}$ $= 73,990 - 0 - 0$ $= 73,990 \text{ tCO}_2\text{e}$ <p>Calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan.</p> <p>However, CAR 04 was raised for some rectification in monitoring report and non-availability of all JMRs and invoices. CAR was closed on revision of the MR & document submission for this CAR.</p>

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

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the registered CDM project activity. The verification team has checked whether calculations of project GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan.
Findings	There is no CAR/CL raised in this section.
Conclusion	The project emissions are regarded as zero according to the applied methodology and registered PDD.

E.8.3. Calculation of leakage GHG emissions

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the registered CDM project activity. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan.
Findings	There is no CAR/CL raised in this section.
Conclusion	The leakage emissions are regarded as zero according to the applied methodology and registered PDD.

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

Means of verification	The verification team assessed whether the data and calculations of GHG emission reductions achieved resulting from the registered CDM project activity. The verification team has checked whether calculations of baseline GHG emissions, project GHG emissions and leakage GHG emissions have been carried out in accordance with the formulae and methods described in the registered monitoring plan.
Findings	There is no CAR/CL raised in this section.
Conclusion	<p>Emission reductions in this monitoring period are:</p> <p>Total Baseline Emissions: 73,990 tCO₂e</p> <p>Total Project Emission: 0 tCO₂e</p> <p>Total Leakage: 0</p> <p>Total Emission Reduction: Emission reduction calculation is done based on following formula,</p> $\text{Emission reduction (ER}_y\text{)} = \text{Baseline Emission (BE}_y\text{)} - \text{Project Emission (PE}_y\text{)} - \text{Leakage (L}_y\text{)}$

	= 73,990 tCO ₂ – 0 tCO ₂ – 0 tCO ₂
	= 73,990 tCO _{2e} (Round down)

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

Means of verification	The verification team has determined the emission reductions achieved during this monitoring period with the estimated value and reason for increase if any.
Findings	There is no CAR/CL raised in this section.
Conclusion	The Emission Reduction (ER) value in the monitoring period is 21.21% ⁷ lesser as compared to the value estimated in the registered PDD. This variation is caused by variability in the environmental conditions, which is beyond the control of the project proponent. Hence accepted by verification team.

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

Means of verification	The verification team has determined the emission reductions achieved during this monitoring period with the estimated value and reason for increase if any.
Findings	There is no CAR/CL raised in this section.
Conclusion	The Emission Reduction (ER) value in the monitoring period is 21.21% lesser as compared to the value estimated in the registered PDD. Such variation has been due to natural phenomena and nature dependent and cannot be controlled by the Project Proponent. Hence accepted by verification team.

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

Means of verification	The verification team has determined the CER achieved during first commitment period and second commitment period
Findings	There is no CAR/CL raised in this section.
Conclusion	<ol style="list-style-type: none"> 1. GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012: 0 tCO_{2e} 2. GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards: 73,990 tCO_{2e} (Monitoring period starting from 01/01/2013) 3. GHG emission reductions or net GHG removals by sink reported from 1 January 2021= 0 tCO_{2e}

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

Means of verification	Not applicable for the present monitoring period
Findings	Not applicable for the present monitoring period
Conclusion	Not applicable for the present monitoring period

E.10. Global stakeholder consultation

Means of verification	Not applicable for the present monitoring period
Findings	Not applicable for the present monitoring period
Conclusion	Not applicable for the present monitoring period

⁷ Calculated based on 1,979 monitoring days and annual estimated emission reductions 17,321 tCO_{2e} and estimated ER for this monitoring period as 93,913 tCO_{2e}.

SECTION F. Internal quality control

As a final step for Verification, the final documentation, including the verification report, has to undergo an internal quality control by the Technical Reviewer(s) to be approved.

Details of the Technical Reviewer(s) are provided within the Verification Report in Section B.2. and Appendix 2 for further references of knowledge and capability to conduct the quality checking.

After the Technical Review process, the final documentation has to undergo a final quality checking process called Administrative Review, done by the Applus+ Certification's Project Activity Manager and/or Technical Support.

For final approval, the final set of documents are prepared by the DOE's Technical Manager or its deputy and signed by the authorized signatory of the DOE.

In case any of the persons performing this final internal quality control approval process has acted as a part of the Assessment Team or Technical Review team, the approval can only be given by DOE's personnel who are not part of those teams.

If the final set of documents has been satisfactorily approved, the Request for issuance is submitted to the UNFCCC CDM EB along with the relevant documents.

SECTION G. Verification opinion

Applus+ Certification has been engaged by M/s Gangamai Industries and Construction Limited to perform the 2nd periodical verification of the "Bundled Wind Power Project by Gangamai Industries and Construction Limited" (UNFCCC Ref. No. 9330).

The M/s Gangamai Industries and Construction Limited is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project's Monitoring Plan in the registered approved PDD and the applied methodology AMS-I.D "Grid connected renewable electricity generation" (Version 17).

Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is operated as planned and described in the project design document approved by the EB;
- the monitoring plan is as per the applied methodology;
- the monitoring in Monitoring Report is as per the PDD and the monitoring plan approved by the EB;
- the development and maintenance of records and reporting procedures are in accordance with the registered monitoring plan;
- the installed equipment being essential for generating emission reduction runs reliably;
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.

In our opinion, the GHG emission reductions for "Bundled Wind Power Project by Gangamai Industries and Construction Limited" for the monitoring period 01/03/2014 to 31/07/2019; as reported in Monitoring Report, prepared on the basis of the project's Monitoring Plan are fairly stated.

Based on the information we have seen and evaluated, we confirm the following statement:

Reporting period: From 01/03/2014 to 31/07/2019;

Verified emissions in the above reporting period:

Leakage emissions	0 tCO ₂ equivalents
Project emissions	0 tCO ₂ equivalents
Baseline emissions	73,990 tCO ₂ equivalents
Emission reductions	73,990 tCO ₂ equivalents

SECTION H. Certification statement

Same as above

Appendix 1. Abbreviations

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CER	Certified Emission Reduction(s)
CEA	Central Electricity Authority
CL	Clarification request
CM	Combined Margin
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	Emission Reductions sheet
FAR	Forward Action Request
JMR	Joint Meter reading
JdVVNL	Jodhpur Vidyut Vitaran Nigam Limited
GHG	Greenhouse gas(es)
GWP	Global Warming potential
MSEDCL	Maharashtra State Electricity Distribution Company Limited
PP	Project Participant
PPA	Power purchase agreement

Appendix 2. Competence of team members and technical reviewers

1. **Dr. Atul Takarkhede**, counts with 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. Furthermore, he counts with solid experience on CDM-VCS-GS consultancy and auditing. He has Ph.D. (Environmental Science) from Institute of Science, RTM Nagpur University, Nagpur, and he has already published different technical reports related to environmental science. Currently he is associated with True Quality Certifications Private Limited and is empaneled with APPLUS certification to carry out GHG audit.
2. **Mr. Denny Xue** (Master's Degree in Environmental Engineering, Bachelor's Degree in Thermal 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 technical review with Shen Applus+. Before he joined Applus+ LGAI, he has been working for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development.

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	NA	Commissioning certificates	Commissioning Certificates of the project activity	Project participant
2	NA	Contract of the project participant with the DOE	Contract document signed between PP and DOE	Project participant
3	NA	CDM VVS	CDM validation and verification standard for project activities, Version 02.0	UNFCCC
...	NA	Joint Meter Reading (JMR)	JMR reports for the project activity covering complete monitoring period	Project participant
	NA	Invoices/ Obligation Reports	Invoices for the complete monitoring period raised by PP (hard copies verified in presence of PP & not retained by DOE being confidential)	Project participant
	NA	MR version 01	MR version 01 dated 26/08/2019	Project participant
		MR version 03 (Final)	MR version 03 dated 19/05/2021	
	NA	ER sheet version 01	Version 01 dated 19/05/2021	Project participant
	NA	Break Down details of plant	Log book records onsite maintained by O&M contractor	Project participant
	NA	Application of materiality	Guidelines for Application of materiality in verifications version 2.0	UNFCCC
	NA	Registered documents of the project activity	https://cdm.unfccc.int/Projects/DB/SIRIM1356664264.57/view Registered PDD v.03 dated 25/01/2017 Final Validation Report – Version 02, Dated 28 December 2012 Final Validation Report for PRC-Version 2.0 Aa dated 21/04/2017 01 st Verification report Version 3.0 Aa, dated 26/04/2017	UNFCCC website
	NA	Approved methodology	AMS-I. D “Grid connected renewable electricity generation” (Version 17)	UNFCCC
	NA	Calibration certificates	Calibration certificates for the Main and Check meters /Meter replacement, Testing and calibration reports/MoMs	PP
	NA	PPA	Copy of Power Purchase Agreement (PPA)	PP
	NA	O&M	O&M contract for the project activity	PP
	NA	Training record	Training records of the O&M personals.	PP

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

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

FAR ID	xx	Section no.	E.2	Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Table 2. CL from this verification

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

Table 3. CAR from this verification

CAR ID	01	Section no.	E.1	Date: 07/10/2020
Description of CAR				
Following inconsistencies observed during review of the MR:				
<ol style="list-style-type: none"> 1. Detailed information on sell of electricity for WTG S 75 missing in the MR. PP also requested to submit PPA/Wheeling agreements for the same for this monitoring period. Corrections sought. 2. Weblink for reference of applied tools missing in MR. Corrections sought. 3. Reference of the connected grid not inline with current situation. Corrections sought. 4. Section B.2 of the MR; details of approved post registration changes for the project activity missing in the section. Corrections sought. 5. Section E.7 of the MR not completed inline with guidelines to complete MR form. Corrections sought. 6. PP requested to submit commissioning certificate, PPAs, O&M agreements and training records of the personnel involved in O&M & monitoring of the project activity. 				
Project participant response				Date: 04/05/2021
<ol style="list-style-type: none"> 1. The required details has now been updated in the MR. PPAs/ wheeling agreements are also being attached here. 2. Weblink for reference in the relevant section has now been updated. 3. Correction regarding connected grid according to current situation has now been made in the CDM MR. 4. Section B.2 of the MR has now been update with the post registration changes. 5. Section E.7 of the MR has now been rectified inline with guidelines to complete MR form. 6. Commissioning certificate, PPAs, O&M agreements and training records of the personnel involved in O&M & training records of the project activity are now being attached with this submission. 				
Documentation provided by project participant				
CDM MR, Commissioning certificate, PPAs, O&M agreements and training records of the personnel involved in O&M & training records				
DOE assessment				Date: 17/05/2021

1. PP has mentioned in section A of revised MR about all WTG's owner. However, to verify the same, evidence document (i.e., PPA/Wheeling agreements) are missing. thus, **CAR is Open.**
2. Weblink for reference of applied tools has been revised by PP and team found it relevant with project activity. thus, **CAR is closed.**
3. PP has updated the reference of connected grid as per the current scenario throughout the revised MR. thus accepted and **CAR is closed.**
4. PP has updated detail of PRC (approved on 25/05/2017) in section B.2 of revised MR. Team found it consistent with UNFCCC CDM webpage. Thus, accepted and **CAR is closed.**
5. Section E.7 of revised MR found consistent with the guideline to complete CDM template v.07. Hence **CAR is closed.**
6. PP has submitted following supporting documents to assessment team: -
 - a. Commissioning certificate of CK02, MK145, RKB25, RKB26, & AK201. However, Certificate of S75 is missing.
 - b. PPA of Rajasthan units. However, PPA of Maharashtra units is missing.
 - c. O & M agreements.

As the Template for UNFCCC CDM Monitoring report has been updated, PP is requested to revised the Project MR in CDM MR template version 8.0.

Project participant response	Date: 19/05/2021
The requested documents has been submitted. Also, the CDM MR template has been revised to Version 8.0	
Documentation provided by project participant	
Commissioning certificate of S-75, wheeling agreements/PPA, CDM V04	
DOE assessment	Date: 20/05/2021
PP has submitted following documents in support of above CARs: - <ol style="list-style-type: none"> 1. Commissioning Certificate for S75 WTG. 2. Power Purchase Agreement for CK02 and S75 WTGs. Assessment team finds above documents consistent with the revised MR. Thus accepted and CAR01 is closed.	

CAR ID	02	Section no.	E.6.2	Date: 07/10/2020
Description of CAR				
PP requested to submit all JMR & invoices in support of electricity exported & imported by the project activity.				
Project participant response				Date: 04/05/2021
<i>JMRs and invoices are now being submitted.</i>				
Documentation provided by project participant				
<i>JMRs & Invoices</i>				
DOE assessment				Date: 17/05/2021
Copies of all JMRs and invoices relevant to the current monitoring period of project activity is submitted to assessment team by Project participant. During review, Team finds quantity of generated electricity throughout the MP consistent with the ER sheet and achieved emission reduction is correctly calculated. Thus, accepted and CAR is closed.				

CAR ID	03	Section no.	E.7	Date: 07/10/2020
Description of CAR				
Details of monitoring meters and annual Calibration dates covering complete monitoring period missing in the MR. PP also requested to submit meter change record for the project activity.				
Project participant response				Date: 04/05/2021
<i>Calibration reports has been submitted as per the calibration frequency for this project activity.</i>				
Documentation provided by project participant				
<i>Meter calibration reports.</i>				
DOE assessment				Date: 17/05/2021
PP has mentioned details of monitoring meters and its calibration in appendix 1 of revised MR. Moreover, in order to verify to same, Copies of calibration certificate has been submitted to assessment team. During review, team finds that all details are consistent, except date of 2 nd calibration for S75 WTG is not inline with the respective calibration certificate. Thus, CAR is open till rectification in MR.				

Project participant response	Date: 19/05/2021
The date of 2 nd Calibration has now been rectified in this submission.	
Documentation provided by project participant	
CDM MR V03	
DOE assessment	Date: 21/05/2021
PP has rectified the calibration date for S75 WTG as per the calibration certificate. Thus, accepted and CAR 03 is closed.	

CAR ID	04	Section no.	E.8	Date: 07/10/2020
Description of CAR				
PP also requested to submit ER reduction calculation sheet to assessment team. ER are reserved for the same.				
Project participant response				Date: 04/05/2021
<i>ER calculation sheet has been provided with this submission.</i>				
Documentation provided by project participant				
<i>ER calculation sheet</i>				
DOE assessment				Date: 17/05/2021
PP has submitted ER sheet to the assessment team. After review, team found that Emission reduction achieved throughout the monitoring period is calculated as per the approved PDD and conservatively correct. Thus, accepted and CAR is closed.				

Table 4. FAR from this verification

FAR ID	xx	Section No.		Date: DD/MM/YYYY
Description of FAR				
<i>No FAR is raised during this verification</i>				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
04.0	6 April 2021	Revision to: <ul style="list-style-type: none"> • Reflect the “Clarification: Regulatory requirements under temporary measures for post-2020 cases” (CDM-EB109-A01-CLAR).
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); • Make structural and editorial improvements.
02.1	11 January 2018	Editorial revision to correct the numbering of appendices in the instructions.
02.0	31 October 2017	Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: project activities, verifying and certifying		