




**Verification and certification report form for
CDM project activities
(Version 02.1)**

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

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	Northwind Bangui Bay Project UNFCCC reference number: 0453
Version number of the verification and certification report	03
Completion date of the verification and certification report	04/06/2018
Monitoring period number and duration of this monitoring period	09; 26/05/2015 to 25/05/2017 (including the dates mentioned above)
Version number of the monitoring report to which this report applies	03
Crediting period of the project activity corresponding to this monitoring period	2 nd crediting period: 01/05/2012 – 30/04/2019 (7 years, Renewable)
Project participants	<p>Philippines: Northwind Power Development Corporation</p> <p>Netherlands: Netherlands' Ministry of Infrastructure and the Environment (IenM) Electrabel N.V. Netherlands' Ministry of Economic Affairs, Agriculture and Innovation (EL&I)</p> <p>Finland: Government of Finland - Ministry of Foreign Affairs of Finland Fortum Corporation</p> <p>Sweden: Government of Sweden - Swedish Energy Agency</p> <p>Japan: Kyushu Electric Power Co., Inc. Shikoku Electric Power Co., Inc The Chugoku Electric Power Co., Inc Chubu Electric Power Company, Inc Tokyo Electric Power Co, Inc. Tohoku Electric Power Co, Inc. Mitsubishi Corporation Japan International Cooperation Agency (JICA) Mitsui & Co. Ltd.</p> <p>United Kingdom of Great Britain and Northern Ireland: Deutsche Bank AG BP Alternative Energy International Ltd</p> <p>France: GDF SUEZ</p> <p>Norway Statoil ASA Government of Norway - Ministry of Foreign Affairs Norsk Hydro ASA</p>

	Germany: RWE Power AG Bilateral and Multilateral Funds: International Bank for Reconstruction and Development (IBRD) as the Trustee of the Prototype Carbon Fund (PCF)
Host Party	Philippines
Applied methodologies and standardized baselines	ACM0002 - "Consolidated baseline methodology for grid connected electricity generation from renewable sources, Version 12.3.0".
Mandatory sectoral scopes linked to the applied methodologies	1 : Energy industries (renewable - / non-renewable sources)
Conditional sectoral scope(s) linked to the applied methodologies	NA
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	87,392 tCO _{2e}
Certified amount of GHG emission reductions or GHG removals for this monitoring period	64,320 tCO _{2e}
Name and UNFCCC reference number of the DOE	Carbon Check (India) Private Limited; [CDM-E-0052]
Name, position and signature of the approver of the verification and certification report	Amit Anand, CEO 

SECTION A. Executive summaryIntroduction:

The Project Participant, Northwind Power Development Corporation, has commissioned the DOE, Carbon Check (India) Private Ltd. (CCIPL) to perform an independent verification of the CDM Project Activity “project “Northwind Bangui Bay Project” (Registration Ref No. 0453) in Philippines (hereafter referred to as “Project Activity”). The project is a 33 MW wind turbine power plant located in Bangui Bay, Republic of the Philippines, producing electricity and supplying to the grid. The electricity generated by the project replaces grid electricity generated from fossil fuels and reduce GHG emissions for the duration of the project. This project consists of 20 WTGs (Wind Turbine Generators) each with a installed capacity of 1.65 MW. The project is implemented in two phases. The commissioning /08/ of the first 15 wind turbines under Phase I of the project completed on 28 May 2005. The Phase II of the project comprises 5 wind turbines and was completed on 26 August 2008 /08/. This report summarises the findings of the verification of the project, performed on the basis of paragraph 62 of the CDM Modalities & Procedures, as well as criteria given to provide for consistent project operations, monitoring and reporting and the subsequent decisions by the CDM Executive Board. Verification is required for all registered CDM project activities intending to confirm their achieved emission reductions and proceed with request for issuance of CERs. This report contains the findings and resolutions from the verification and a certification statement for the certified emission reductions.

Objective:

Verification is the periodic independent review and ex-post determination of both quantitative and qualitative information by a Designated Operational Entity (DOE) of the monitored reductions in GHG emissions that have occurred as a result of the registered CDM project activity during a defined monitoring period.

Certification is the written assurance by a DOE that, during a specific period in time, a project activity achieved the emission reductions as verified.

The objective of this verification was to verify and certify emission reductions reported for the project activity for the period from 26/05/2015 to 25/05/2017 (including both the days).

The purpose of verification is to review the monitoring results and verify that the monitoring methodology was implemented according to the monitoring plan and monitoring data, and used to confirm the reductions in anthropogenic emissions by sources, is sufficient, definitive and presented in a concise and transparent manner. CCIPL’s objective is to perform a thorough, independent assessment of the registered project activity.

In particular, the monitoring plan, monitoring report and the project’s compliance with relevant UNFCCC and host Party criteria are verified in order to confirm that the component project/s has/have been implemented in accordance with the previously registered/included component project design and conservative assumptions, as documented. It is also confirmed if the monitoring plan is in compliance with the registered PDD and the approved monitoring methodology.

Scope:

The scope of the verification is:

- To verify the project implementation and operation with respect to the registered PDD
- To verify the implemented monitoring plan with the registered PDD or approved revised PDD and applied baseline and monitoring methodology.
- To verify that the actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan.
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.
- To verify that reported GHG emission data is sufficiently supported by evidence.

The verification shall ensure that the reported emission reductions are complete and accurate in order to be certified.

The verification comprises a review of the monitoring report over the monitoring period from from 26/05/2015 to 25/05/2017 and based on the registered PDD in part of the monitoring parameters and monitoring plan, emission reduction calculation spreadsheet, monitoring methodology and all related evidence provided by project participant.

On-site visit and stakeholders' interviews are also performed as part of the verification process.

The verification team assigned by the DOE concludes that the PDD /B04/ and the Monitoring report /01/, meets all relevant requirements of the UNFCCC for CDM project activities including article 12 of the Kyoto Protocol and paragraph 62 of CDM M& P, the modalities and procedures for CDM (Marrakesh Accords) and the subsequent decisions by the COP/MOP and CDM Executive Board. The verification has been conducted in-line with the CDM VVS for project activities, version 01.0 /B01-1/.

The project activity was correctly implemented according to selected monitoring methodology, monitoring plan and the registered PDD /B04/. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the review and on site visit the verification team confirms that the project activity has resulted in the 64,320 t CO₂e emission reductions during the second monitoring period.

CC IPL as a DOE is therefore pleased to issue a positive verification opinion expressed in the attached Certification statement.

One (01) Corrective Action Requests (CAR) and one (01) Clarification Actions (CL) have been rasied and satisfactorily closed during the verification process.

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

No.	Role	⌂ >	Last name	First name	Affiliation	Involvement in
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					(e.g. name of central or other office of DOE or outsourced entity)	Desk/document review	On-site inspection	Interviews	Verification findings
1.	Team Leader / Technical Expert	IR	Singh	Vikash Kumar	CC IPL	X	X	X	X

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Agarwalla	Sanjay Kumar	CC IPL
2.	Final Approval	IR	Anand	Amit	CC IPL

SECTION C. Application of materiality

The Project is a large-scale CDM project activity achieving total emission reductions of less than 300,000 tons of CO₂e per year; as such, a 2 per cent materiality threshold is applied /B01-1/. Accordingly, the materiality threshold is 1,286 tons of CO₂e. The materiality thresholds have been calculated in accordance with the § 329 (c) of CDM VVS for project activities, version 01 /B01-1/.

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 error in the quantification of emissions	Low	<p>According to the monitoring plan and the Monitoring Report, there are QA/QC procedures applied for monitoring parameters and data management/information flow.</p> <p>Calculation spread-sheets are used to determine the emissions reductions. Further data collected are through calibrated meters and automated system.</p>	<p>Verification team of CC IPL has focused on assessment of the following:</p> <ul style="list-style-type: none"> • Procedure of raw data collection/ Monitoring procedures. • Data & information flow with a special focus on any material mistake • Calculation spreadsheets. • Procedures/QA/QC established to detect and correct any error or omission in monitoring parameters. • Quality control for monitored parameters and metering systems. <p>Complete verification (100 % data) of all the monitoring records (measurement</p>

				records, invoices and the calibration certificates) was done by the verification team and compared with the values indicated in the emission reduction spread-sheet. No risk identified.
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C.2. Consideration of materiality in conducting the verification

In line with Guidelines for Application of materiality in verifications /B03/, a reasonable level of assurance is defined for the verification of the project by complete verification of all the monitoring records (measurement records, invoices and the calibration certificates) was done by the verification team and compared with the values indicated in the emission reduction spread-sheet.

Some mistakes were identified and subsequently finding was raised. These findings are detailed in Appendix 4 and they were successfully closed. Therefore, related identified mistakes as listed in findings in Appendix 4 to this report have been determined to be immaterial. And thus it is confirmed that there are no material errors, omissions or misstatements and a reasonable level of assurance is established.

SECTION D. Means of verification

D.1. Desk/document review

The verification was performed primarily based on the review of the Monitoring report /1/ 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. Documents reviewed or referenced during the verification are listed in Appendix 3 below.

D.2. On-site inspection

Duration of on-site inspection: 17/05/2018 to 18/05/2018				
No.	Activity performed on-site	Site location	Date	Team member
1.	An assessment of the implementation and operation of the registered project activity as per the registered PDD.	Bangui, Ilocos Norte, Philippines	17/05/2018 to 18/05/2018	Vikash Kumar Singh
2.	A review of information flows for generating, aggregating and reporting the monitoring parameters	Bangui, Ilocos Norte, Philippines	17/05/2018 to 18/05/2018	Vikash Kumar Singh
3.	Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PDD	Bangui, Ilocos Norte, Philippines	17/05/2018 to 18/05/2018	Vikash Kumar Singh
4.	A cross check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources	Bangui, Ilocos Norte, Philippines	17/05/2018 to 18/05/2018	Vikash Kumar Singh
5.	A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD and the selected methodology and corresponding tool(s), where applicable	Bangui, Ilocos Norte, Philippines	17/05/2018 to 18/05/2018	Vikash Kumar Singh
6.	A review of calculations and assumptions made in determining the GHG data and	Bangui, Ilocos Norte,	17/05/2018 to	Vikash Kumar Singh

	emission reductions	Philippines	18/05/2018	
7.	An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters	Bangui, Ilocos Norte, Philippines	17/05/2018 to 18/05/2018	Vikash Kumar Singh

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Madsen	Bent	Northwind Power Development Corporation	17/05/2018 to 18/05/2018	Project technical specification and operation including metering and QA/QC	Vikash Kumar Singh
2.	Macapobre,	Giovanni	North Wind Power Development Corporation	17/05/2018 to 18/05/2018	Project operation, CER calculation and completeness of monitoring report, Quality Assurance – Management and operating system, compliance of monitoring plan with monitoring methodology and PDD.	Vikash Kumar Singh
3.	Aquino	Marleo	North Wind Power Development Corporation	17/05/2018 to 18/05/2018	Metering and QA/QC	Vikash Kumar Singh

D.4. Sampling approach

>> N/A

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

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

benefits			
Global stakeholder consultation	--	--	--
Others (please specify)	--	--	--
Total	01	01	--

SECTION E. Verification findings

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

Means of verification	Document Review, Interview
Findings	CAR-01 had been raised and satisfactorily closed.
Conclusion	<p>CC IPL had made the version 01, dated 23/04/2018 of the Monitoring report /01/, covering the monitoring period from 26/05/2015 to 25/05/2017 (both days inclusive) publicly available on 25/04/2018 through its dedicated interface on the UNFCCC website /B05/. The MR /01/ uses the latest form available at UNFCCC website. The MR /01/ is complete and meets all requirements of the Instructions for filling out the monitoring report form version 06.0 /B05/ and CDM project standard version 01.0 /B01/.</p> <p>This confirms compliance with the §355 and §356 of CDM VVS for project activities, version 01.0 /B01-1/.</p>

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

>> N/A

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

Means of verification	Document Review, Interview
Findings	--
Conclusion	<p>As verified during the on site inspection and document review , the project is a 33 MW /09/ wind turbine power plant located in Bangui Bay, Republic of the Philippines, producing electricity and supplying /10/,/11/ to the grid. The electricity generated by the project replaces grid electricity generated from fossil fuels and reduce GHG emissions for the duration of the project. This project consists of 20 WTGs (Wind Turbine Generators) each with a installed capacity of 1.65 MW. The project is implemented in two phases. The commissioning /08/ of the first 15 wind turbines under Phase I of the project completed on 28 May 2005. The Phase II of the project comprises 5 wind turbines and was completed on 26 August 2008 /08/. During the reported monitoring period, the project has supplied 127,621.026 MWh /03/,/04/ of electricity to the grid and the same has been monitored by calibrated bi-directional electricity meters /05/,/06/.</p> <p>The project has been implemented as described in the registered PDD as well as in section B.1 of the monitoring report. No deviations thereof have been identified in the course of this verification The verification team took cognizance of §341 (b)(i), §357, §358 and §359 of CDM VVS for project activities, version 01 /B01-1/.</p> <ul style="list-style-type: none"> • The implementation status and equipment installation of the Project are consistent with the registered PDD; • The actual operation of the Project is as per the registered PDD; • Information (data and variables) provided in the monitoring report is in accordance with that stated in the registered PDD.

E.4. Post-registration changes

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

>> N/A

E.4.2. Corrections

>> N/A

E.4.3. Change to the start date of the crediting period of the project activity

>> N/A

E.4.4. Inclusion of a monitoring plan

>> N/A

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

>> N/A

E.4.6. Changes to the project design

>> N/A

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

>> N/A

E.5. Compliance of the registered monitoring plan with the methodology including applicable tools and standardized baselines

Means of verification	Document Review, Interview
Findings	CL-01 had been raised and satisfactorily closed.
Conclusion	<p>The verification team has checked the actual monitoring plan against the latest approved monitoring plan and monitoring methodology and applicable tools. Furthermore the verification team has checked monitoring system during the onsite inspection by means of comparison with the information given in the monitoring plan and monitoring methodology. The monitoring plan is completely in accordance with the approved methodology applied by the registered PDD.</p> <p>All the parameters need to be monitored and corresponding monitoring approach have been discussed in the monitoring plan in the registered PDD and QA/QC procedure has been stipulated.</p> <p>The verification team confirms that the monitoring plan complies with the applied methodology and the monitoring system and all applied procedures are completely in compliance to the latest approved monitoring plan and the methodology ACM0002 version 12.3.0 /B02/.</p> <p>The verification team took cognizance of §360, §361 and §362 of CDM VVS for project activities, version 01 /B01-1/</p>

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	Document Review, Interview
Findings	--
Conclusion	<p>The data and parameters fixed ex-ante is the emission factor of the grid (EF_y). The emission factor of the 2rd crediting period of the Project has been determined ex-ante in the registered PDD /B04/. The emission factor used in the MR is 0.504 tCO₂e/MWh, the value has been verified against the registered PDD and found to be the correct. The verification team confirms that the MR and the ER calculation spreadsheet have considered the parameters fixed ex-ante correctly, no deviations have been observed.</p> <p>The verification team took cognizance of §363 of CDM VVS for project activities, version 01 /B01-1/</p>

E.6.2. Data and parameters monitored

Means of verification	Document Review, Interview
Findings	--.
Conclusion	<p>All relevant monitoring parameters (as listed in section B. 7.1 of the PDD and D.2 of the MR and the Sustainable Development Monitoring Plan /07/) have been verified with regard to the appropriateness of the applied measurement / determination method, the correctness of the values applied for ER calculation, the accuracy, and applied QA/QC measures. The verification team took cognizance of §363, §364 and 367 of CDM VVS for project activities, version 01 /B01-1/.</p> <ul style="list-style-type: none"> • The monitoring has been carried out in accordance with the monitoring plan in the registered PDD. • All parameters required by the monitoring plan have been measured / determined without material misstatements and in line with all applicable standards and relevant requirements.

E.6.3. Implementation of sampling plan

Means of verification	N/A
Findings	N/A
Conclusion	The PDD does not have any provision of sampling .

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

Means of verification	Document Review, Interview
Findings	CL-01 and CAR-01 had been raised and satisfactorily closed.
Conclusion	<p>The verification team has checked /05/, /06/ the relevant monitoring equipment to verify the fulfilment of the calibration requirements, especially if calibration frequency and accuracy levels are in line with the requirements of the registered PDD and/or the applicable calibration standards. During this monitoring period, the installed measuring instruments have been operating correctly and were duly calibrated. Below is the calibration records of the meters.</p> <p><u>Main Meter</u> Type: Ametek Jemstar Accuracy class: 0.3 Serial number: 1349 21762 Calibration frequency: At least once a year to comply with Grid Code Date of last calibration /05/: 04/09/2014; 30/09/2015, 07/09/2016 Validity 06/09/2017 Note: There is no change in the main meter during the reported monitoring period.</p>

	<p>Backup meter: Type: Ametek Jemstar Accuracy class: 0.3 Serial number: 1536 31357 Calibration frequency: At least once a year to comply with Grid Code Date of last calibration/05/: 07/09/2016 Validity: 06/09/2017 Note: This ERC-calibrated Meter was installed on 07/09/2016 as replacement /06/ of the old meter, Landis Gyr with SN: 107341182</p> <p>Type: Landis Gyr Accuracy class: 0.3 old meter, Landis Gyr with SN: 107341182 Date of last calibration /05/: 18/09/2014; 30/09/2015</p> <p>Verification team confirms that the accuracy of monitoring equipment is assured. The verification team took cognizance of §368 of CDM VVS for project activities, version 01 /B01-1/.</p>
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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	Document Review, Interview
Findings	CL-01 had been raised and satisfactorily closed.
Conclusion	<p>The verification team has performed the following activities to assess the data and calculations of GHG emission reductions achieved by the Project as per the methodology ACM0002 version 12.3.0 /B02/:</p> <ul style="list-style-type: none"> • Desk review and on-site inspection of the NGCP password protected excel sheet /03/ and Crosscheck of the information provided in the MRs with Philippines electricity market corporation (WESM) invoices /04/, to verify that a complete set of data for the specified monitoring period is available. <p>Review of the calculations of baseline GHG emissions have been carried out in accordance with the formulae and methods described in the monitoring plan in the registered PDD and applied methodology.</p> <ul style="list-style-type: none"> • Crosscheck of the calculated emission reductions with the provisions as per the Monitoring Plan with the actual practice during the monitoring period. • Review of the emission factor of the grid (EF_y) and other reference values as per the registered PDD /B04/. <p>The supplied electricity is being measured continuously and recorded monthly by National Grid Corporation of the Philippines (NGCP). There is bi-directional meter (to measure the export and import of electricity) at NGCP substation. The recorded electricity export and import /03/ is being downloaded by NGCP on monthly basis from the meters and being shared with PO through an email which contains password protected excel sheet. On the basis of this excel sheet as shared by NGCP, Philippines electricity market corporation (WESM) sends invoices /04/ to the project proponent under the WESM (Wholesale Electric Spot Market) registration. Verification team has reviewed all monthly password protected excel sheet /03/ as shared by NGCP as a part of review of project operation to check the electricity exported and imported by the project. Furthermore, the WESM invoices /04/ are also verified to cross-check the data of electricity export and import. The team confirmed a complete set of electricity data for the 9th monitoring period is available and all data have been consistently reported in the final MR and the ER calculation spreadsheet.</p> <p>The Baseline Emissions (BE_y) are calculated as follows:</p>

$$BE_y = EG_y * EF_y = 127,621.026 \text{ MWh} \times 0.504 \text{ tCO}_2/\text{MWh} = 64,320 \text{ tCO}_2\text{e.}$$

Where,

EG_y = the net electricity supplied by the project activity to the grid in year y (MWh/yr), which is the difference between the electricity export to the grid and the electricity import from the grid is calculated as follows:

$$EG_y = \text{Energy exported to WESM} - \text{Energy imported from WESM} = 129,145.497 \text{ MWh} - 1,524.470 \text{ MWh} = 127,621.026 \text{ MWh}$$

EF_y = the emission factor in year y , calculated in the registered PDD, which has been determined ex-ante as 0.504 tCO_{2e}/MWh for the current crediting period.

The monitoring of this parameter has been done through recording of electricity (import and export) data by bi-directional electricity meters /05/.

The verified values (in MWh) are shown in the following table:

Billing Month	Period Covered	Electricity delivered by the project activity to WESM, MWh	Electricity received by the project activity from WESM, MWh	Net Electricity delivered by the project activity to WESM, MWh
Jun 2015	26/05/15 to 25/06/15	1,372.308	87.171	1,285.137
Jul 2015	26/06/15 to 25/07/15	3,354.771	29.463	3,325.308
Aug 2015	26/07/15 to 25/08/15	1,929.910	81.724	1,848.185
Sep 2015	26/08/15 to 25/09/15	5,859.359	43.474	5,815.885
Oct 2015	26/09/15 to 25/10/15	5,876.990	43.344	5,833.646
Nov 2015	26/10/15 to 25/11/15	8,131.340	48.636	8,082.704
Dec 2015	26/11/15 to 25/12/15	10,250.492	36.540	10,213.952
Jan 2016	26/12/15 to 25/01/16	7,220.612	62.608	7,158.004
Feb 2016	26/01/16 to 25/02/16	10,050.628	60.536	9,990.092
Mar 2016	26/02/16 to 25/03/16	6,723.388	62.972	6,660.416
Apr 2016	26/03/16 to 25/04/16	2,903.992	116.620	2,787.372
May 2016	26/04/16 to 25/05/16	1,536.948	123.844	1,413.104
Jun 2016	26/05/16 to 25/06/16	1,957.200	82.488	1,874.712

Jul 2016	26/06/16 to 25/07/16	1,743.028	94.500	1,648.528
Aug 2016	26/07/16 to 25/08/16	1,444.772	41.524	1,403.248
Sep 2016	26/08/16 to 25/09/16	4,579.568	67.900	4,511.668
Oct 2016	26/09/16 to 25/10/16	2,876.188	78.204	2,797.984
Nov 2016	26/10/16 to 25/11/16	9,237.592	31.668	9,205.924
Dec 2016	26/11/16 to 25/12/16	10,577.448	10.920	10,566.528
Jan 2017	26/12/16 to 25/01/17	12,137.412	28.308	12,109.104
Feb 2017	26/01/17 to 25/02/17	10,946.404	30.352	10,916.052
Mar 2017	26/02/17 to 25/03/17	6,987.204	52.388	6,934.816
Apr 2017	26/03/17 to 25/04/17	4,018.336	86.800	3,931.536
May 2017	26/04/17 to 25/05/17	1,489.824	97.916	1,391.908
Total	26/05/2015 to 25/05/2017	129,145.497	1,524.470	127,621.026

The verification took cognizance of § 375 of CDM VVS for project activities, version 01.0) /B01-1/ and confirms that:

- A complete set of data for the monitoring period is available.
- Information on the baseline GHG emission calculation provided in the monitoring report has been cross-checked with other sources.
- Calculations of baseline emissions have been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology.
- Appropriate emission factor values has been correctly applied
- No errors, miscalculations, omissions, misstatements or incomplete information has been identified.

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

Means of verification	Document Review, Interview
Findings	--
Conclusion	The project emissions from the project is zero. This is in accordance with ACM0002 version 12.3.0 /B02/, registered PDD /B04/, project emissions of the project activity (wind farm project) are not considered. The verification took cognizance of § 375 of CDM VVS for project activities, version 01.0) /3/.

E.8.3. Calculation of leakage GHG emissions

Means of verification	Document Review, Interview
Findings	--
Conclusion	The leakage from the project is zero, thus is in accordance with ACM0002 version 12.3.0 /B02/, registered PDD /B04/.

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

Means of verification	Document Review, Interview
Findings	--
Conclusion	<p>The verification team has checked if the MR includes a summary table of the emission reductions calculation specifying separately:</p> <ul style="list-style-type: none"> • Total baseline emissions, • Total emission reductions. <p>The emission reductions during the monitoring period 26/05/2015 to 25/05/2017 are calculated as:</p> $ER_y = BE_y - PE_y - LE_y = 64,320 - 0 - 0 = 64,320 \text{ tCO}_{2e}.$ <p>According to § 375 of CDM VVS for project activities, version 01.0 the verification team confirms that:</p> <ul style="list-style-type: none"> • A complete set of data for the monitoring period is available. • Information provided in the monitoring report has been cross-checked with other sources, electricity sales receipts; • Calculations of baseline emissions and emission reduction has been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology. • Appropriate/correct emission factor value has been applied

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

Means of verification	Document Review, Interview
Findings	--
Conclusion	<p>The comparison of actual GHG emission reductions with estimates in registered PDD /B04/ has been checked by the verification team. Based on the above assessment, the emission reduction during the monitoring period 26/05/2015 to 25/05/2017 is verified as 64,320 tCO_{2e}. Verification team noted that the verified emission reductions are less than the estimated value in the monitoring period.</p> <p>According to § 375 of CDM VVS for project activities, version 01.0 the verification team confirms that:</p> <p>A comparison of actual GHG emission reductions or net anthropogenic GHG removal of the project activity achieved during this monitoring period with the estimates in the registered PDD has been provided.</p> <p>The verification team considers the calculation of the comparison is correct.</p>

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

Means of verification	Document Review, Interview
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Findings	--
Conclusion	Not applicable since the actual GHG emission reductions are lower than the estimates in the registered PDD

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	Document Review, Interview
Findings	--
Conclusion	The verification team has checked section E.4 of the MR and the ER calculation spreadsheet. The MR in section E.4 includes a summary table of the ER breakdown which states that the GHG emission reductions have completely been generated from 1 January 2013 onwards. Actual GHG emission reductions have been generated from 1 January 2013 onwards. CERs achieved upto 31 st Dec 2012 = 0 tCO ₂ e. CERs achieved from 1 st Jan 2013 = 64,320 tCO ₂ e

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

Means of verification	Not applicable
Findings	
Conclusion	Not applicable

E.10. Global stakeholder consultation

Means of verification	Not applicable (this is not first MP)
Findings	
Conclusion	Not applicable (this is not first MP)

SECTION F. Internal quality control

The verification report passed a technical review before being submitted to the UNFCCC Executive Board. The technical review is performed by a technical reviewer qualified in accordance with CCIPL's qualification scheme for CDM validation and verification.

SECTION G. Verification opinion

>>

Carbon Check (India) Private Ltd. (CCIPL) has performed the ninth (9th) periodic verification of the registered CDM Project Activity "Northwind Bangui Bay Project" having UNFCCC reference number as 0453.

The verification team assigned by the DOE concludes that the project activity as described in the registered PDD /B04/ and the Monitoring report /01/, meets all relevant requirements of the UNFCCC for CDM project activities including article 12 of the Kyoto Protocol and paragraph 62 of CDM Modalities & Procedures, the modalities and procedures for CDM (Marrakesh Accords) and the subsequent decisions by the COP/MOP and CDM Executive Board. The verification has been conducted in-line with the CDM VVS requirements for project activities, version 01.0 /B01-1/.

Verification methodology and process

The Verification team confirms the contractual relationship signed on 16/03/2018 between the DOE, Carbon Check (India) Private Ltd. and the Project Participant, (Northwind Power Development Corporation). The team assigned to the verification meets the CCIPL's internal procedures including

the UNFCCC requirements for the team composition and competence. The verification team has conducted a thorough contract review as per UNFCCC and CCIPL’s procedures and requirements.

The verification has been performed as per the requirements described in the CDM VVS for project activities, version 01.0 and constitutes the review and completion of the following steps:

- Reviewing the registered PDD /B040/ including the monitoring plan and the corresponding validation report /B04/;
- Publication of the MR (version 01, 23/04/2018) /1/ on the UNFCCC website on 25/04/2018
- Desk review of the validation report, MR and other relevant documents including documents related to the projects activities in emission reductions
- Review of the applied monitoring methodology (ACM0002 version 12.3.0) /B02/;
- Review of any CMP and EB decisions, clarifications and guidance /B05/;
- On-site assessment (16/05/2018-17/05/2018)
- Resolution of CARs and CLs raised during verification
- Issuance of Verification Report

The project activity was correctly implemented according to selected monitoring methodology, monitoring plan and the registered PDD. The monitoring system was installed, maintained in a proper manner, while collected monitoring data allowed for the verification of the amount of achieved GHG emission reductions. Through the review and on-site visit, the verification team confirms that the project activity has resulted in the 64,320 tCO₂e emission reductions during the second monitoring period.

The break-up of emission reduction up-to 31/12/2012 and 01/01/2013 onwards as verified during the course of verification are as below:

Item	Emission reductions up to 31 December 2012	Emission reductions from 1 January 2013 onwards
Emission reductions (t CO₂e)	0	64,320

CC IPL as a DOE is therefore pleased to issue a positive verification opinion expressed in the attached Certification statement.

SECTION H. Certification statement

Carbon Check (India) Private Ltd., the DOE, has performed the verification of the registered project activity “Northwind Bangui Bay Project” having UNFCCC reference number as 0453. The project is a 33 MW wind turbine power plant located in Bangui Bay, Republic of the Philippines, producing electricity and supplying to the grid. The electricity generated by the project replaces grid electricity generated from fossil fuels and reduce GHG emissions for the duration of the project. This project consists of 20 WTGs (Wind Turbine Generators) each with a installed capacity of 1.65 MW. The project is implemeneted in in two phases. The commissioning /08/ of the first 15 wind turbines under Phase I of the project occurred on 28 May 2005. The Phase II of the project comprises 5 wind turbines and was completed on 26 August 2008 /08/.

The PP is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions. It is DOE’s responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity. The DOE does not express any opinion on the selected baseline scenario or on the validated and registered PDD. The verification is carried out in-line with the requirements of CDM VVS for project activities, version 01.0 /B01-1/.

The verification was performed to identify the compliance with implementation and monitoring requirements, and to verify the actual amount of achieved emission reductions, through obtaining evidence and information on-site that included i) checking whether the provisions of the monitoring methodology and the monitoring plan were consistently and appropriately applied and ii) the collection of evidence supporting the reported data.

The verification is based on:

- PDD version 03 dated 08/03/2012 and the corresponding validation report /B04/;
- Approved monitoring methodology ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”, version 12.3.0;
- Monitoring reports versions 01, dated 23/04/2018, version 02, dated 19/05/2018 and version 03, dated 29/05/2018.

This statement covers verification period from 26/05/2015 to 25/05/2017 (including both the dates).

The DOE has raised 01 clarifications and 01 corrective action request, all of which are closed.

The DOE considers necessary to give reasonable assurance that reported GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology and the monitoring plan contained in the registered PDD are fairly stated.

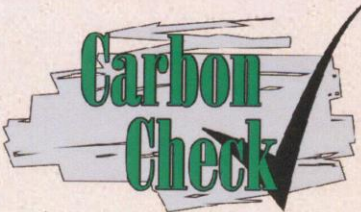
The DOE, hereby certifies that the project activity, achieved emission reductions by sources of GHG equal to 64,320 tCO₂ equivalent and all monitoring requirements have been fulfilled and is substantiated by an audit trail that contains evidence and records. The break-up of emission reduction up-to 31/12/2012 and 01/01/2013 onwards as verified during the course of verification are as below:

Item	Emission reductions up to 31 December 2012	Emission reductions from 1 January 2013 onwards
Emission reductions (t CO₂e)	0	64,320

Appendix 1. Abbreviations

Abbreviations	Full texts
CAR	Corrective action request
CC IPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification request
CO ₂	Carbon dioxide
CO _{2e}	Carbon dioxide Equivalent
DNA	Designated National Authority
ER	Emission Reduction
ERC	Energy Regulatory Commission of the Philippines
FAR	Forward Action Request
GHG	Greenhouse gas(es)
MoV	Means of verification
MP	Monitoring Plan
MR	Monitoring Report
NGCP	National Grid Corporation of the Philippines
PDD	Project Design Document
PP	Project Participant
SDMP	Sustainable Development Monitoring Plan
UNFCCC	United Nations Framework Convention for Climate Change
VVS	Validation and Verification Standard
WESM	Wholesale Electricity Spot Market

Appendix 2. Competence of team members and technical reviewers



Carbon Check (India) Private Ltd.

Vikash Kumar Singh

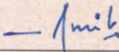
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator	<input checked="" type="checkbox"/>	Team Leader	<input checked="" type="checkbox"/>	Technical reviewer	<input checked="" type="checkbox"/>
Verifier	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>	Local Expert ¹	<input checked="" type="checkbox"/>

In the following Technical Areas:

TA 1.1	<input type="checkbox"/>	TA 3.1	<input checked="" type="checkbox"/>	TA 5.2	<input type="checkbox"/>	TA 9.2	<input type="checkbox"/>	TA 13.2	<input checked="" type="checkbox"/>
TA 1.2	<input checked="" type="checkbox"/>	TA 4.1	<input checked="" type="checkbox"/>	TA 8.1	<input type="checkbox"/>	TA 10.1	<input type="checkbox"/>	TA 14.1	<input type="checkbox"/>
TA 2.1	<input type="checkbox"/>	TA 5.1	<input type="checkbox"/>	TA 9.1	<input type="checkbox"/>	TA 13.1	<input checked="" type="checkbox"/>		



Mr. Amit Anand
CEO

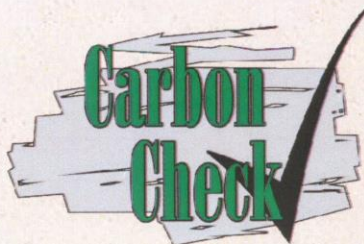
Date of Approval 24/12/2017	Valid Till 23/12/2018
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Revision History of the Document

26/12/2014	Initial Adoption
24/12/2015	Annual Revision
20/01/2016	Interim Revision for office address change
23/12/2017	Annual Revision
24/12/2017	Annual Revision

¹India, South Africa

CARBON CHECK (INDIA) PRIVATE LIMITED
 Registered in India: U74930DL2012PTC232495
 Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005
 Corporate off: G 49 & 50, 3rd Floor, Sector - 3, NOIDA (Uttar Pradesh) - 201301
 Tel: +91 120 4373114 | URL: www.carboncheck.co.in
 e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Sanjay Agarwalla

has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 06.0):

For following functions:

Validator Team Leader Technical reviewer
 Verifier Technical Expert Local Expert¹

In the following Technical Areas:

TA 1.1 TA 3.1 TA 5.2 TA 9.2 TA 13.2
 TA 1.2 TA 4.1 TA 8.1 TA 10.1 TA 14.1
 TA 2.1 TA 5.1 TA 9.1 TA 13.1

Mr. Vikash Kumar Singh
Compliance Officer

Mr. Amit Anand
CEO

Date of Approval
24/12/2017

Valid Till
23/12/2018

Revision History of the Document

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¹India

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 Tel: +91 120 4373114 | URL: www.carboncheck.co.in
 e-mail: info@carboncheck.co.in

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/01/	PP	a. Monitoring Report b. Monitoring Report c. Monitoring Report	Version 01, dated 23/04/2018 Version 02, dated 19/05/2018 Version 03, dated 29/05/2018	Project Participant
/02/	PP	a. Emission reduction calculation sheet corresponding to /01-a/ b. Emission reduction calculation sheet corresponding to /01-b/ and /01-c/	-- --	Project Participant
/03/	NGCP	Copies of the monthly energy meter readings (NGCP password protected excel sheet) covering the entire monitoring period: 1. Load Profile for the Billing Month of June 2015; 2. Load Profile for the Billing Month of July 2015; 3. Load Profile for the Billing Month of August 2015; 4. Load Profile for the Billing Month of September 2015; 5. Load Profile for the Billing Month of October 2015; 6. Load Profile for the Billing Month of November 2015; 7. Load Profile for the Billing Month of December 2015; 8. Load Profile for the Billing Month of January 2016; 9. Load Profile for the Billing Month of February 2016; 10. Load Profile for the Billing Month of March 2016; 11. Load Profile for the Billing Month of April 2016; 12. Load Profile for the Billing Month of May 2016; 13. Load Profile for the Billing Month of June 2016; 14. Load Profile for the Billing Month of July 2016; 15. Load Profile for the Billing Month of August 2016; 16. Load Profile for the Billing Month of September 2016; 17. Load Profile for the Billing Month of October 2016; 18. Load Profile for the Billing Month of November 2016;	Multiple documents and thus multiples dates & reference number.	Project Participant

		<p>19. Load Profile for the Billing Month of December 2016;</p> <p>20. Load Profile for the Billing Month of January 2017;</p> <p>21. Load Profile for the Billing Month of February 2017;</p> <p>22. Load Profile for the Billing Month of March 2017;</p> <p>23. Load Profile for the Billing Month of April 2017;</p> <p>24. Load Profile for the Billing Month of May 2017;</p>		
/04/	WESM	<p>Copies of invoices (Philippines electricity market corporation (WESM) invoices) for cross check of the energy meter readings covering the monitoring period:</p> <ol style="list-style-type: none"> 1. WESM Billing for June 2015; 2. WESM Billing for July 2015; 3. WESM Billing for August 2015; 4. WESM Billing for September 2015; 5. WESM Billing for October 2015; 6. WESM Billing for November 2015; 7. WESM Billing for December 2015; 8. WESM Billing for January 2016; 9. WESM Billing for February 2016; 10. WESM Billing for March 2016; 11. WESM Billing for April 2016; 12. WESM Billing for May 2016; 13. WESM Billing for June 2016; 14. WESM Billing for July 2016; 15. WESM Billing for August 2016; 16. WESM Billing for September 2016; 17. WESM Billing for October 2016; 18. WESM Billing for November 2016; 19. WESM Billing for December 2016; 20. WESM Billing for January 2017; 21. WESM Billing for February 2017; 22. WESM Billing for March 2017; 23. WESM Billing for April 2017; 24. WESM Billing for May 2017; 	Multiple documents and thus multiples dates & reference number.	Project Participant
/05/	NGCP	<p>Calibration certificates for the energy meters covering the monitoring period:</p> <ol style="list-style-type: none"> 1. Calibration certificate dated 04/09/2014; 30/09/2015 07/09/2016 for Main meter S. No. 134921762 2. Calibration certificates dated 18/09/2014 and 30/09/2015 	=	Project Participant

		for old replaced back up meter S. No. 107341182 3. Calibration certificates dated 07/09/2016 for new Back up meter S. No. 153631357		
/06/	NGCP	Details/proof of change (replacement) of energy meters during the monitoring period. 1. Installation of Back up meter S. No. 153631357 dated 07/09/2016	--	Project Participant
/07/	Project Participant	Evidence for the compliance and monitoring of Sustainable Development Monitoring Plan ("SDMP") as contained in annex iv of the registered PDD. 1. Sustainable Development Report (CMR 21) 2. Sustainable Development Report (CMR 22) 3. Sustainable Development Report (CMR 23) 4. Sustainable Development Report (CMR 24)	Multiple documents and thus multiples dates & reference number.	Project Participant
/08/	Northwind & Vestas (formerly known as NEG Micon)	Evidence of the commissioning of the project: 1. Taking over agreement between Northwind & Vestas (formerly known as NEG Micon) dated 20/06/2005 for phase I 2. Taking over agreement between Northwind & Vestas (formerly known as NEG Micon) dated 26/08/2008 for phase II	20/06/2005, 26/08/2008	Project Participant
/09/	NEG Micon- *Vestas (formerly known as NEG Micon)	Evidence for the technical specifications of the project equipments (WTGs) – NEG Micon technical specification sheet	18/09/2003	Project Participant
/10/	Philippines electricity market corporation	Evidence of grid connectivity and sell of electricity to the utility company (Philippines electricity market corporation under WESM,NGCP: 1. Market Participation Agreement for direct WESM members between Philippines electricity market corporation & Northwind dated 25/04/2008 2. Certificate from Philippines electricity market corporation dated 17/05/2010 to Northwind stating the company's membership under WESM as WESM member and trading participant- Generator category since 26/11/2006	25/04/2008, 17/05/2010	Project Participant
/11/	Northwind	Single line diagram showing transformers, feeders of the wind farm and the evacuation of electricity to the grid at 69 kVA	--	Project Participant

/12/	Grid Management committee	Grid Code (RA 9136)	December 2001	Project Participant
/B01/	UNFCCC	1. CDM Validation and Verification Standard version for project activities 01.0 2. CDM Project Standard version 01.0	https://cdm.unfccc.int/	UNFCCC website
/B02/	UNFCCC	ACM0002: Consolidated methodology for grid-connected electricity generation from renewable sources, version 12.3.0	https://cdm.unfccc.int/	UNFCCC website
/B03/	UNFCCC	Guideline: Application of materiality in verifications version 02.0	https://cdm.unfccc.int/	UNFCCC website
/B04/	CC IPL	<ul style="list-style-type: none"> Verification report of the 8th Monitoring period from 01/05/2013 to 25/05/2015 PDD version 03 dated 08/03/2012 and the corresponding validation report 	https://cdm.unfccc.int/	UNFCCC website
/B05/	UNFCCC	Attachment. Instructions for filling out the monitoring report form version 06.0	https://cdm.unfccc.int/	UNFCCC website

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	01	Section no.	E.5	Date: 04/05/2018
Description of CL				
<p>Review of provided calibration certificate reveals that there is a delay in the calibration (Main meter was calibrated on 04/09/2014 and valid till 03/09/2015, whereas the next calibration was performed on 30/09/2015; Check meter was calibrated on 18/09/2014 and valid till 17/09/2015, whereas the next calibration was performed on 30/09/2015) for both main and back up meter. PP is requested to clarify as how this complies with the calibration frequency of registered monitoring plan.</p> <p>Also PP needs to clarify the change of main meter as stated in the published MR (which is incorrect as per the information revealed during the on-site visit and document review).</p>				
Project participant response				Date: 19/05/2018

The finding was referred to NGCP being the party responsible for maintaining the meter to conduct annual calibration (this is as per the registered Monitoring Plan of the PDD). NGCP informed NW that they followed Grid Code No. 9.4.2 of RA 9136, which required annual calibration yet for some reason or another they were not able to comply it exactly on the supposed date. NW acknowledged the delay, hence, it applied a corrective factor to adjust the electricity generated in the delayed period and conservatively for two months, September and October 2015.

Documentation provided by project participant	
<ol style="list-style-type: none"> 1. Revised Monitoring Report v2 2. Revised Emission Reduction sheet 3. Grid Code 	
DOE assessment	Date: 23/05/2018
<p>Verification team based on review registered monitoring plan and <i>Grid Code confirms that calibration frequency of both main and back up meter is annual.</i></p> <p>The accuracy of the meter is 0.3 % and the delayed calibration report reveals that the error was well within the accuracy of the meter. Verification team based on review of revised ER sheet confirms that the PP has conservatively applied a correction factor for the months of September 2015 and October 2015 inline with the requirements of appendix “calibration” of VVS, version 01.0. The leads to a reduction of emission reductions from the webhosted monitoring report (64,332 tCO₂e to 64320 tCO₂e). Also PP has removed the incorrect statement related to change in the main meter from the MR which is deemed acceptable as there was no change in the main meter during the current monitoring period.</p> <p>CL is closed.</p>	

Table 3. CAR from this verification

CAR ID	01	Section no.	E.1	Date: 04/05/2018
Description of CAR				
<p>As per MR filling requirements the dates should be written in DD/MM/YYYY format. The dates in section D.2 is not inline with this requirement.</p> <p>Furthermore, as per information in table of section D.2, the back up meter S. No. 1536 31357 was calibrated on 18/09/2014 and 30/09/2015 which seems to be incorrect as per the provided calibration certificates.</p>				
Project participant response				Date: 19/05/2018
<p>The PP acknowledges the finding of the DOE on format of written dates in Section D.2, which was correspondingly corrected.</p> <p>The calibration information of the back-up meter and replaced back-up meter is now provided correctly in the Revised Monitoring Report v2.</p>				
Documentation provided by project participant				
<ol style="list-style-type: none"> 1. Revised Monitoring Report v2 2. Revised Emission Reduction sheet 				
DOE assessment				Date: 23/05/2018
<p>Required correction has been done in the Monitoring Report; checked and confirmed by the verification team.</p> <p>CAR is closed.</p>				

Table 4. FAR from this verification

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

