

1ST PERIODIC MONITORING REPORT OF WIND POWER PROJECT OF CLP WIND FARMS (INDIA) PRIVATE LIMITED AT JATH



Project Title	Wind Power Project of CLP Wind Farms (India) Private Limited at Jath
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Table of Contents

1	Project Details.....	3
1.1	Summary Description of the Implementation Status of the Project.....	3
1.2	Sectoral Scope and Project Type.....	3
1.3	Project Proponent.....	3
1.4	Other Entities Involved in the Project.....	4
1.5	Project Start Date.....	4
1.6	Project Crediting Period.....	4
1.7	Project Location.....	4
1.8	Title and Reference of Methodology.....	5
1.9	Other Programs.....	6
2	Implementation Status.....	7
2.1	Implementation Status of the Project Activity.....	7
2.2	Deviations.....	7
2.2.1	Methodology Deviations.....	7
2.2.2	Project Description Deviations.....	7
2.3	Grouped Project.....	7
3	Data and Parameters.....	8
3.1	Data and Parameters Available at Validation.....	8
3.2	Data and Parameters Monitored.....	9
3.3	Monitoring Plan.....	10
4	Quantification of GHG Emission Reductions and Removals.....	13
4.1	Baseline Emissions.....	13
4.2	Project Emissions.....	13
4.3	Leakage.....	13
4.4	Net GHG Emission Reductions and Removals.....	13

1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The project has been implemented by CLP Wind Farms (India) Private Limited ("CLP") in the state of Maharashtra. The Wind Energy Generators ("WEG") have been supplied by Gamesa Wind Turbines Private Limited. As per the Supply and Services agreement signed between CLP and Gamesa Wind Turbines Private Limited, later is responsible for technology and equipment supply, as well as the operation and maintenance of the WEGs. The Project uses wind energy to generate electricity using 2.00 MW Wind Turbine Generators (WEGs) in the Maharashtra state in India. Total 30 numbers 2.00 MW of Gamesa Wind Turbines Private Limited make WEGs are installed as part of this Project by CLP. The power generated from this project activity will be supplied to the state electricity grid which is a part of NEWNE regional grid of India. The Project is fully commissioned and is supplying electricity to NEWNE Grid. .

Detailed locations and commissioning dates of the Project are provided in section 1.7 of this report.

Total emissions reductions generated by the Project during this monitoring period are 166,831 tCO₂e.

1.2 Sectoral Scope and Project Type

The project activity is considered under "grid-connected electricity generation from renewable sources" (Sectoral Scope) that generates electricity in excess of 15 MW (limit for small scale project). Therefore as per the scope of the project activity enlisted in the "list of sectoral scopes and related approved baseline and monitoring methodologies", the project activity is categorized in Scope Number 1. Details or the same are listed below:

Scope Number : 1

Sectoral Scope : Energy industries (renewable/non-renewable sources)

Project Type : Project

Methodology : ACM0002 - Consolidated baseline methodology for grid-connected electricity generation from renewable sources (Version 16.0)

The Project is neither a grouped nor an AFOUL project.

1.3 Project Proponent

The project proponent details are as follows;

Organization name	CLP Wind Farms (India) Private Limited
Contact person	Mr. Dipjay Sanchania
Title	Head – CDM

Address	15 th Floor, Oberoi Commerz, Off. Western Express Highway, Goregaon (E), Mumbai 400 063 India
Telephone	+ 91 22 6758 8888
Email	carbon@clpindia.in

1.4 Other Entities Involved in the Project

Organization name	Not Applicable
Contact person	Not Applicable
Title	Not Applicable
Address	Not Applicable
Telephone	Not Applicable
Email	Not Applicable

1.5 Project Start Date

26-March -2014, being the date of commissioning of first WEG installed under the project activity.

1.6 Project Crediting Period

Crediting Period: 10 years 0 months (renewable twice)

Start Date of Crediting Period: 26- March -2014.

End Date of Crediting Period: 25 -March – 2024.

The project proponent is not undertaking this project under any other GHG program.

1.7 Project Location

WTG ID and its location is as below mentioned table:-

S. No.	Machine ID	CC	Village	Taluka	District	State
1.	J97/2-110	26-Mar-14	Untawadi	Jath	Sangli	Maharashtra
2.	J97/2-87	26-Mar-14	Untawadi	Jath	Sangli	Maharashtra

3.	J97/2-114	26-Mar-14	Untawadi	Jath	Sangli	Maharashtra
4.	J97/1-185	30-Mar-14	Achakanhal	Jath	Sangli	Maharashtra
5.	J97/1-226	30-Mar-14	Achakanhal	Jath	Sangli	Maharashtra
6.	J97/2-16	30-Mar-14	Khojanwadi	Jath	Sangli	Maharashtra
7.	J97/1-166	30-Mar-14	Valsang	Jath	Sangli	Maharashtra
8.	J97/1-163	30-Mar-14	Valsang	Jath	Sangli	Maharashtra
9.	J97/1-231	30-Mar-14	Achakanhal	Jath	Sangli	Maharashtra
10.	J97/1-228	30-Mar-14	Salekiri	Jath	Sangli	Maharashtra
11.	J97/1-147	30-Mar-14	Jath	Jath	Sangli	Maharashtra
12.	J97/1-114	30-Mar-14	Jath	Jath	Sangli	Maharashtra
13.	J97/1-173	30-Mar-14	Valsang	Jath	Sangli	Maharashtra
14.	J97/1-197	30-Mar-14	Jath	Jath	Sangli	Maharashtra
15.	J97/1-102	30-Mar-14	Jath	Jath	Sangli	Maharashtra
16.	J97/1-227	30-Mar-14	Jath	Jath	Sangli	Maharashtra
17.	J97/1-190	30-Mar-14	Jath	Jath	Sangli	Maharashtra
18.	J97/1-164	30-Mar-14	Jath	Jath	Sangli	Maharashtra
19.	J97/2-91	30-Mar-14	Mendhegiri	Jath	Sangli	Maharashtra
20.	J97/2-145	30-Mar-14	Untawadi	Jath	Sangli	Maharashtra

21.	J97/2-119	30-Mar-14	Untawadi	Jath	Sangli	Maharashtra
22.	J97/2-128	30-Mar-14	Untawadi	Jath	Sangli	Maharashtra
23.	J97/2-132	30-Mar-14	Devnal	Jath	Sangli	Maharashtra
24.	J97/2-129	30-Mar-14	Devnal	Jath	Sangli	Maharashtra
25.	J97/2-41	30-Mar-14	Khojanwadi	Jath	Sangli	Maharashtra
26.	J97/2-42	30-Mar-14	Khojanwadi	Jath	Sangli	Maharashtra
27.	J97/1-165	30-Mar-14	Amrutwadi	Jath	Sangli	Maharashtra
28.	J97/1-248	30-Mar-14	Salekiri	Jath	Sangli	Maharashtra
29.	J97/1-239	30-Mar-14	Salekiri	Jath	Sangli	Maharashtra
30.	J97/2-161	31-Mar-14	Mendhegiri	Jath	Sangli	Maharashtra

1.8 Title and Reference of Methodology

The project activity falls under the following Sectoral scope and Project Type:

Sectoral Scope : 01 - Energy industries (renewable / non renewable sources)

Project Type : I - Renewable Energy Projects

Methodology: ACM0002: Grid-connected electricity generation from renewable sources ---
Version 16.0

<http://cdm.unfccc.int/methodologies/DB/EY2CL7RTEHRC9V6YQHLAR6MJ6VEU83>

1.9 Other Programs

The project has not applied for any other GHG program.

2 IMPLEMENTATION STATUS

2.1 Implementation Status of the Project Activity

- **Implementation Status:**

All the WEGs of the Project are commissioned and the Project is fully implemented. The commissioning dates of the individual WEGs have been provided in section 1.7.

- **Events that may impact the GHG emission reductions or removals and monitoring:**

No such events took place during this monitoring period that may impact the GHG emission reductions for the project activity. Regular O&M activities were conducted, but barring them the project activity has been exporting electricity continuously since commissioning. There were neither major breakdowns nor other events for the project activity during the monitoring period that may impact the GHG emission reductions for the project activity.

2.2 Deviations

3 Methodology Deviations

There are no deviations related to methodology.

4 Project Description Deviations

There are no deviations related to Project Description.

4.1 Grouped Project

Not Applicable

5 DATA AND PARAMETERS

5.1 Data and Parameters Available at Validation

Data / Parameter	EF _{grid,OM,y}
Data unit	tCO ₂ e/MWh
Description	Operating Margin (OM) Emission Factor of NEWNE
Source of data	Calculated from CEA database, Version 10, December 2014 ¹
Value applied:	0.9862
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per "Tool to calculate the emission factor for an electricity system, version 04.0.0" as 3-year generation weighted average using data for the years 2011-2012, 2012-2013 & 2013-2014. The data are obtained from "CO2 Baseline Database for Indian Power Sector" version 10.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of the data	Baseline Emission calculation
Comments	Operating margin emission factor is fixed ex-ante throughout the crediting period.

Data / Parameter	EF _{grid,BM,y}
Data unit	tCO ₂ e/MWh
Description	Build Margin (BM) Emission Factor of NEWNE
Source of data	Calculated from CEA database, Version 10, December 2014
Value applied:	0.9495 (NEWNE)
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per "Tool to calculate the emission factor for an electricity system, version 04.0.0" for the year 2013-2014. The data is obtained from "CO2 Baseline Database for Indian Power Sector" version 10.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of the data	Baseline Emission calculation
Comments	Build margin emission factor is fixed ex-ante throughout the crediting period.

Data / Parameter	EF _{grid,CM,y}
Data unit	tCO ₂ e/MWh
Description	Combined Margin (CM) Emission Factor of NEWNE
Source of data	Calculated from CEA database, Version 10, December 2014
Value applied:	0.9770 (NEWNE Grid)
Justification of choice of data or description of measurement methods and procedures applied	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$

¹ http://www.cea.nic.in/reports/planning/cdm_co2/user_guide_ver10.pdf

	Where: $EF_{grid,BM,y}$ = Build margin CO₂ emission factor in year y (tCO₂/MWh) $EF_{grid,OM,y}$ = Operating margin CO₂ emission factor in year y (tCO₂/MWh) W_{OM} = Weighting of operating margin emissions factor (%) = 75% W_{BM} = Weighting of build margin emissions factor (%) = 25%
Purpose of the data	Baseline Emission calculation
Comments	Combined margin emission factor is fixed ex-ante throughout the crediting period.

5.2 Data and Parameters Monitored

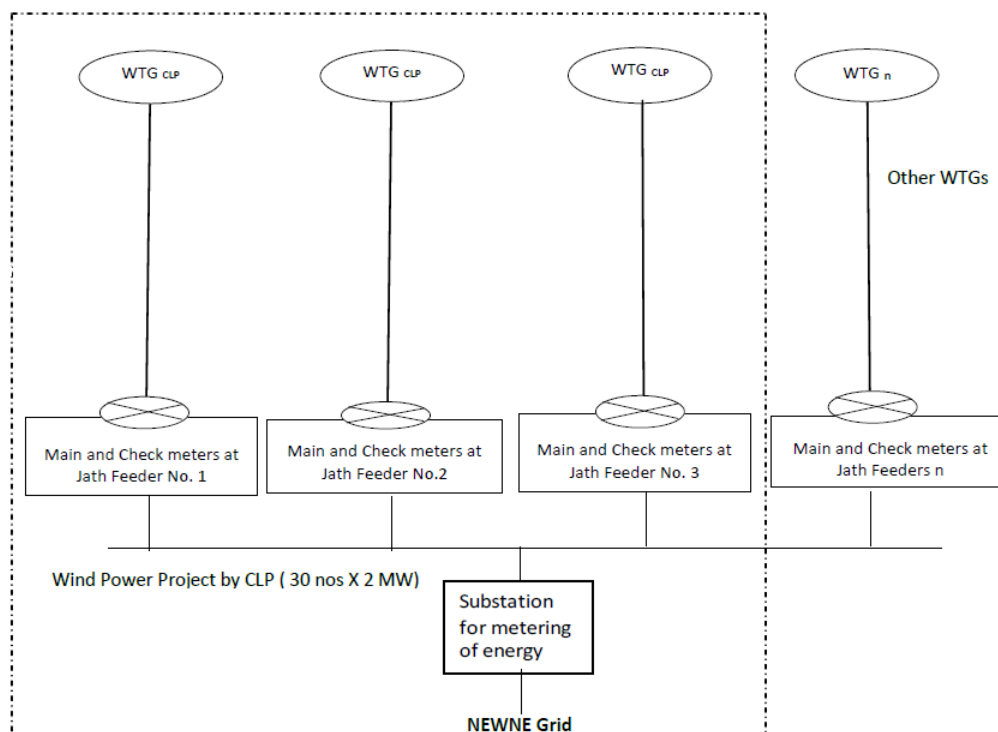
Data / Parameter	$EG_{PJ,y}$
Data unit	MWh
Description	Quantity of net electricity generation supplied by the project (Wind) plant/unit to the grid in year y
Source of data	Monthly electricity share certificates/note or Credit Note or Joint Meter Reading Report
Description of measurement methods and procedures to be applied	The value of net electricity generation supplied to the grid is as per the Monthly electricity share certificates/note or Credit Note or Joint Meter Reading Report (issued by MSEDCL), which can be cross checked from the invoice raised to DISCOM. This document forms the basis for calculation of the emission reductions.. Net electricity supplied to the grid will be calculated as the difference between the measured values of “export” and “import” of electricity, recorded through the dedicated SEB energy meter (electronic trivector bidirectional) installed at the delivery point of the electricity (i.e. at the connected substation). A total of 2 meters – main and check are installed. In case of failure of main meter, values from check meter are utilized. Net electricity generated and supplied by the project to the grid = Electricity Export to the grid - Electricity Import from the grid Monthly meter readings are taken from the main and check meter installed at the substation and certified by the representatives of SEB Officials and the representatives of the project proponent. For, apportioning procedure refer section 3.3 of the MR.
Frequency of monitoring/recording	Continuous monitoring, hourly measurement and at least monthly recording

Value applied:	170,759
Monitoring equipment	Monitoring: Tri vector meter will be used Data type: Measured Type of meter: Static type meter (Main & Check). Both are Bidirectional meters. Class of meter: 0.2s
QA/QC procedures to be applied	The quantity of net electricity supplied will be cross-verified from the invoice raised to MSEDCL by the project proponent. The MSECL carries out the calibration, periodical testing, sealing and maintenance of meters in the presence of Gamesa representative. The frequency of meter testing is once in 3 year. All meters are tested at the Metering Point.
Purpose of data	To calculate emissions reductions from the Project
Calculation method	Measured quantity
Comment	The data will be archived for crediting period + 2 years.

5.3 Monitoring Plan

The monitoring methodology specified in the methodology requires that the project-monitoring plan to consist of monitoring of quantity of net electricity supplied to the grid in the year y. In order to monitor the mitigation of GHG due to the project activity, the total energy exported needs to be measured. The net energy supplied to grid by the project activity multiplied by emission factor for regional grid, would form the baseline for the project activity.

Since the baseline emission factor is based on an ex-ante determination, monitoring of this parameter is not required. The sole parameter for monitoring is the net electricity exported to the grid.



Aim of monitoring:

The monitoring procedure will set guidelines for the project investor to monitor the parameters regularly and to ensure quality and accuracy in monitoring. It elaborates on the functions of the monitoring team and procedures to be followed in monitoring of the VCS parameters.

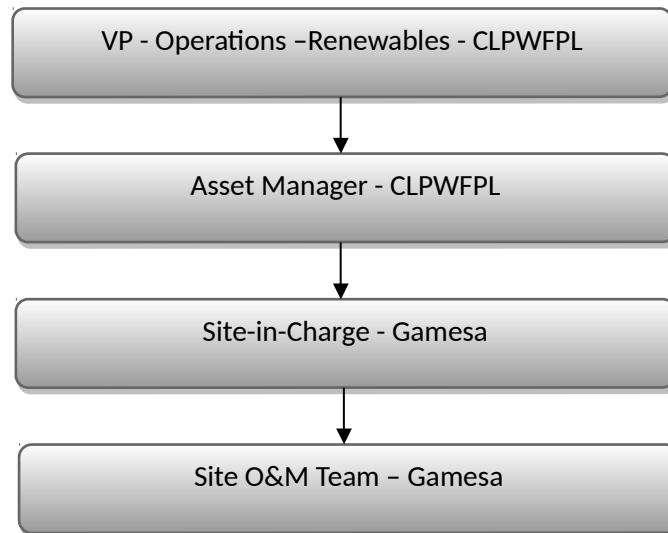
The monitoring shall include all the equipment's that contribute towards reduction in GHG emissions. Since the project activity focuses mainly on the generation of renewable power, it is important to monitor all the equipment's involved in the metering of all the necessary instruments.

The project investor has a well-defined management structure for monitoring the project activity.

Monitoring roles and responsibilities

The operational and management structure implemented for data monitoring is as follows:

The Project activity is operated by Gamesa (O&M contractor for the project activity) and managed by the PP. The operational and maintenance contract for the project activity is with Gamesa, which is an ISO 9001 certified company. Gamesa follows the documentation practices to ensure the reliability and availability of the data for all the activities as required from the identification of the site, wind resource assessment, logistics, finance, construction, commissioning and operation of the wind power project. The data for the project is compiled by the O&M Contractor and subsequently stored by the PP. The roles and responsibilities for the project are described as below;

**Personnel Training:**

The project personnel, including those involved in data recording, maintenance and direct data assessments will be provided with training on the application and usage of the manual.

Training and maintenance requirements:

O&M operator would provide training to the on-site staffs on operation and maintenance of the metering system and adherence to the Monitoring Plan of the project activity. Training for operation of both Wind projects shall be provided by the respective O&M Operators.

For WTGs, Training on the machine is an essential pre-requisite, to ensure necessary safety of man and machine. Further, in order to maximize the output from the WTGs, it is extremely essential, that the engineers and technicians understand the machines and keep them in good health. In order to ensure that technology providers' service staff is deft at handling technical snags on top of the turbine, the necessity of ensuring that they are capable of climbing the tower with absolute ease and comfort has been established.

Data Recording:

The state utility and representative of concerned Power Producer / developer shall jointly read the metering system every month at the delivery point.

Meter readings taken jointly will be signed by the representatives of state utility and of concerned power producer/developer. If Power Producer/ Developer's representative is not present for joint meter reading then the meter reading taken by state utility shall be considered as final; provided a signed copy of the meter reading is sent to the Power Purchase / Developer within twenty four (24) hours of such reading of the main metering system or back up metering system as the case may be.

Reading and Correction of Meters:

For the purpose of energy accounting, O&M operator will provide ABT compliant meters at the interface points. Interface metering will confirm to the Central Electricity Authority (Installation and Operation Meters) Regulation, 2006. In the event that the main meter is not in service as a result of maintenance, repairs or testing, then the check meter will be used during the period the main meter is not in service.

Calibration of Meters:

Calibration of all the meters will be undertaken at least once in 3 years and faulty meters will be duly replaced immediately. Calibration will be done by an authorized agency or reputed laboratory.

Apportioning Procedure for (Wind) Power Project connected to NEWNE grid

The net electricity supplied to the grid would be reported as the difference between the net export and import from the WTG. The electricity export and import data will be monitored via main and check meters connected to feeders at the respective sub-station.

In case of NEWNE grid, multiple WTGs would be connected to the feeder, one of which would be part of the project activity and rest of which would not be part of the project activity (WTGs owned by other entities). The import and export of electricity is continuously monitored by the export/import meter and the data is recorded on a monthly basis jointly by the proponent and the electricity board. The meter is located at the delivery point of wind power in the grid. This accounts for the import of electricity that is used by the Project proponent. Hence the net electricity generated is calculated from the joint meter reading and recorded /archived in paper/electronic.

SEB/O&M Contractor follows an apportioning procedure to account for electricity generation from individual WTGs based on data from individual WTG controllers.

Following the joint meter readings, apportioning of net electricity supplied to grid by each WTG is done by the SEB/O&M Contractor 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 the connected substations.

In case of Maharashtra only, based on the monthly export and import data as per main/check meters and the WTG controller readings, SEB provides a break-up of the electricity exported and imported for each WTG.

Maharashtra

A monthly joint meter reading of the energy meters is taken by MSEDCL officials and O&M contractors (representatives of the project investor). Apportioning of net electricity generation from each WTG connected to NEWNE grid is then determined as follows:

1.	Apportioning Ratio	=	Generation at WTG Controller
			Total Generation of All WTG Controller for the feeder
2.	Electricity Import from WTG by the grid (EG_{import})	=	Import from Main/Check Meter * Apportioning Ratio
3.	Electricity Export to the WTGs by the grid (EG_{export})	=	Export from Main/Check Meter * Apportioning Ratio
4.	Net electricity generated by WTG	=	Electricity Import from WTG by the grid – Electricity Export to the WTGs by the grid

Above steps for calculation of EG_{import} and EG_{export} are carried out by MSEDCL Officials & energy break-up sheet is issued by the MSEDCL Officials. Based on the break-up sheets Project investor raises invoice to DISCOM which forms the cross-check for the net electricity generated. The Project investor has no role in the entire procedure of apportioning

Emergency Preparedness and Uncertainty Procedure:

In case Main meter or check meter is found to be outside the acceptable limits of accuracy or faulty or not functioning properly, it will be repaired, recalibrated or replaced as soon as possible. In the event that the Main meter is not in service as a result of maintenance, repairs or testing, the check meter will be used. In case both the main and check meter are found to be outside the acceptable limits of accuracy or faulty or not functioning properly, both the meters shall be calibrated immediately and the error percentage found in the main meter during its calibration shall be applied to its metered energy data for the entire period since its last calibration to obtain the corrected value of net electricity exported to the grid.

Data Recording and Archiving:

O&M operator will keep complete and accurate records of operating log at the Power Plant. The data will be archived electronically as well as in log books at the power plant and will be kept for two years after the end of the crediting period or the last issuance of CERs for this project activity, whichever occurs later.

In case the dates of a particular monitoring period do not match with the dates of the billing cycle, the net electricity exported to the grid would be calculated from:

- Apportioning the net electricity exported to grid, as recorded in the consolidated Share Certificate / JMR Report / Credit Notes certified by the respective state discom, based on the number of days in the monitoring period and the number of days for which Share Certificate / JMR Report / Credit Notes was prepared.

The calculated value after apportioning would be used for calculation of emission reductions during that period.

Calibration Details of Meters for Current Monitoring Period:

Main Meter						
Line No./ Feeder No.	Meter identification- Serial No.	Line details (KV)	Meter Make & Class	Meter Calibration Date	1st Meter re-calibration date (Doc. Identification No.)	2nd Meter re-claibration date (Doc. Identification No.)
1	15687855	33k V	Elester : Alpha-A1800 , 0.2s	29/11/2013, SGL/Metering/ Tech492/02006	24/07/2014, SGL/Metering/ Tech 1532	23/07/2017
2	15687858			29/11/2013, SGL/Metering/ Tech493/02008	24/07/2014, SGL/Metering/ Tech 1533	23/07/2017
3	15687862			03/01/2014, SGL/Metering/ Tech495/00067	24/07/2014, SGL/Metering/ Tech 1525	23/07/2017
4	13813553			29/11/2013, SGL/Metering/ Tech496/02020	24/07/2014, SGL/Metering/ Tech 1523	23/07/2017
6	16636465			24/03/2014 and 25/03/2014, SGL/Metering No 648	01/09/2014, SGL/Metering/ Tech 1788	31/08/2017
7	15456640			24/03/2014 and 25/03/2014, SGL/Metering	01/09/2014, SGL/Metering/ Tech 1788	31/08/2017

				No 650		
9	16351021			24/03/2014 and 25/03/2014, SGL/Metering No 652	01/09/2014, SGL/Metering/Tec h 1795	31/08/2017
8	16636473	33k V	Elester : Alpha- A1800 , 0.2s	27/03/2015 and 18/05/2015, SGL/Metering No 1120	27/03/2015 and 18/05/2015, SGL/Metering No 1120	26/03/2018

Check Meter						
Line No./Fee der No.	Meter identificati on- Serial No.	Line detai ls (KV)	Meter Make & Class	Meter Calibration Date (Doc. Identification No.)	1st Meter re- calibration date (Doc. Identification No.)	2nd Meter re-claibration date (Doc. Identification No.)
1	15687856	33k V	Elester : Alpha- A1800 , 0.2s	29/11/2013, SGL/Metering/T ech492/02005	24/07/2014, SGL/Metering/Te ch 1526	23/07/2017
2	15687860			29/11/2013SGL/ Metering/Tech49 3/02007	24/07/2014SGL/ Metering/Tech 1527	23/07/2017
3	12853657			29/11/2013, SGL/Metering/T ech495/00066	24/07/2014, SGL/Metering/Te ch 1524	23/07/2017
4	16351040			29/11/2013, SGL/Metering/T	24/07/2014, SGL/Metering/Te	23/07/2017

				ech496/02009	ch 1522	
6	16636468			24/03/2014 and 25/03/2014, SGL/Metering No 647	01/09/2014, SGL/Metering/Te ch 1787	31/08/2017
7	16351020			24/03/2014 and 25/03/2014, SGL/Metering No 649	01/09/2014, SGL/Metering/Te ch 1793	31/08/2017
9	16351022			24/03/2014 and 25/03/2014 SGL/ Metering No 651	01/09/2014, SGL/Metering/Te ch 1795	31/08/2017
8	16636474	33k V	Elester : Alpha-A1800 , 0.2s	27/03/2015 and 18/05/2015, SGL/Metering No 1119	27/03/2015 and 18/05/2015, SGL/Metering No 1119	26/03/2018

6 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

6.1 Baseline Emissions

Baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. The baseline emissions for the monitoring period are calculated as follows:

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

Thus,

$$\begin{aligned} BE_y &= 170,696 * 0.9770 \text{ tCO}_2\text{e} \\ &= 166,831 \text{ tCO}_2\text{e} \end{aligned}$$

6.2 Project Emissions

The project activity involves harnessing of wind energy and its conversion to electricity. Hence according to ACM0002 Version 16.0.0, there will be no project emissions in the project activity $PE_y = 0$

6.3 Leakage

As per ACM0002 Version 16.0.0, no leakage has been considered for the calculation of emission factor.

6.4 Net GHG Emission Reductions and Removals

According to the approved methodology ACM0002 (Version 16.0.0) Emission Reductions are calculated as

$$ER_y = BE_y - PE_y$$

Where:

ER_y Emission reductions in year y (tCO₂e/yr)

BE_y Baseline Emissions in year y (tCO₂e/yr)

PE_y Project Emissions in year y (tCO₂e/yr)

Thus,

$$ER_y = 166,831 - 0$$

$$= 166,831$$

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2014	90,273	0	0	90,273
2015	76,558	0	0	76,558
Total	166,831	0	0	166,831