



**Monitoring report form for CDM project activity  
(Version 08.0)**

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

**MONITORING REPORT**

<b>Title of the project activity</b>	GEI Wind Power Project in Karnataka, India		
<b>UNFCCC reference number of the project activity</b>	4144		
<b>Version number of the PDD applicable to this monitoring report</b>	7.0		
<b>Version number of this monitoring report</b>	1.0		
<b>Completion date of this monitoring report</b>	01/09/2021		
<b>Monitoring period number</b>	04		
<b>Duration of this monitoring period</b>	01/01/2020 to 31/12/2020 (Inclusive of both the days)		
<b>Monitoring report number for this monitoring period</b>	01		
<b>Project participants</b>	Generacion Eolica India Limited		
<b>Host Party</b>	India		
<b>Applied methodologies and standardized baselines</b>	ACM0002 "Consolidated methodology for grid- connected electricity generation from renewable sources", Version 11		
<b>Sectoral scopes</b>	Sectoral Scope 1 : Energy industries (renewable/ non-renewable sources)		
<b>Amount of GHG emission reductions or net anthropogenic GHG removals achieved by the project activity in this monitoring period</b>	Amount achieved before 1 January 2013	Amount achieved from 1 January 2013 until 31 December 2020	Amount achieved from 1 January 2021
	0	37,839	0
<b>Amount of GHG emission reductions or net anthropogenic GHG removals estimated ex ante for this monitoring period in the PDD</b>	64,095		

## SECTION A. Description of project activity

### A.1. General description of project activity

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The project activity is generation of 31.2 MW through wind energy at Harthi, Kurtakoti and Malasamudra villages of Gadag district in Karnataka.

The project activity involves 39 WTGs of Enercon make (800 kW, E-53). The WTGs generate 3-phase power at 400V, which is stepped up to 33 kV and further stepped up to 220 kV at the receiving sub-station for the purpose of interconnection with the KPTCL/HESCOM grid at the sub-station of the KPTCL/HESCOM. The project activity was fully commissioned (all WTGs) on 10/10/2008.

The project activity is operational with normal operation and maintenance during current monitoring period i.e. 01/01/2020 to 31/12/2020 and supplied **40,821 MWh** electricity to the connected grid, which has resulted in emission reduction of **37,839 tCO<sub>2e</sub>**.

### A.2. Location of project activity

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The project is located at Harthi, Kurtakoti & Malasamudra villages in Gadag district of Karnataka state in India. The Project consists of 39 E-53 WTGs of 800 kW each. The details of the physical location are as follows -

Sl. No.	Location No.	No. of WTGs	Village	Longitude	Latitude
1	170a	4	Harthi	15°20'53"	75°34'29.2"
2	170			15°20'59"	75°34'27.5"
3	171			15°21'5.8"	75°34'26.1"
4	236			15°21'14.3"	75°34'38.8"
5	229	6	Malasamudra	15°21'59.9"	75°34'23"
6	181			15°21'16.6"	75°33'57.8"
7	180			15°22'10.4"	75°34'0.9"
8	163			15°22'8.3"	75°34'44.8"
9	226			15°22'19.2"	75°34'13.5"
10	230			15°21'52.7"	75°34'23.9"
11	173	8	Harthi	15°21'19.4"	75°34'15.5"
12	231		Malasamudra	15°21'46.8"	75°34'27.7"
13	174		Harthi	15°21'31.5"	75°34'15.5"
14	233			15°21'33.3"	75°34'30.6"
15	232			15°21'39.6"	75°34'28.6"
16	234			15°21'27.8"	75°34'33.5"
17	169A			15°21'20"	75°34'3.7"
18	237			15°21'8.1"	75°34'41.3"
19	168	10	Kurthkoti	15°21'29.5"	75°34'1.5"
20	169		Harthi	15°21'29.5"	75°34'1.5"
21	235			15°21'21.3"	75°34'39.2"
22	136			15°20'26.5"	75°34'5.7"
23	137			15°20'32.6"	75°34'4.6"
24	138			15°20'39.9"	75°34'4.9"
25	139			15°20'44.8"	75°33'57.3"
26	140			15°20'50.9"	75°33'57.3"
27	141			15°20'59.2"	75°33'56.9"
28	179		Malasamudra	15°22'3.6"	75°34'2.6"
29	228		Malasamudra	15°22'15.2"	75°34'18.1"

30	172	4	Harthi	15°21'15.2"	75°34'22.3"
31	227		Malasamudra	15°22'15.2"	75°34'41.2"
32	239		Harthi	15°20'52.8"	75°34'41.2"
33	167	4	Kurthkoti	15°21'42.8"	75°33'54.3"
34	176		Harthi	15°21'44.5"	75°34'9.5"
35	178		Kurthkoti	15°21'58.1"	75°34'5.6"
36	164		Kurthkoti	15°22'2.8"	75°33'48.1"
37	165	3	Kurthkoti	15°21'55.3"	75°33'50.5"
38	166		Kurthkoti	15°21'49.3"	75°33'51.3"
39	177		Malasamudra	15°21'51.4"	75°34'8.1"
Total		39			

### A.3. Parties and project participants

Parties involved	Project participants	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
India (host)	Generacion Eolica India Limited (Private entity)	No

### A.4. References to applied methodologies and standardized baselines

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Sectoral Scope 1: Energy industries (renewable - / non-renewable sources)

ACM0002 "Consolidated methodology for grid-connected electricity generation from renewable sources", Version 11.0<sup>1</sup>

The methodology draws upon following tools:

- Tool to calculate the emission factor for an electricity system; Version 02<sup>2</sup>
- Tool for the demonstration and assessment of additionality; Version 05.2<sup>3</sup>

### A.5. Crediting period type and duration

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This project activity has considered fixed crediting period of 10 years.

The crediting period starts on 01/04/2011 and ends on 31/03/2021.

## SECTION B. Implementation of project activity

### B.1. Description of implemented project activity

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The first WTG under this project activity was commissioned on 17/12/2007 and the last WTG was commissioned on 10/10/2008. All 39 WTGs are Enercon make (E-53), having a capacity of 800 kW each. There is no such event occurred during the monitoring period, which may impact the applicability of the methodology.

The commissioning date for all the WECs included in the project activity is given in the table below.

Sl. No.	Commissioning Date	No. of WTGs	Location No. of
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<sup>1</sup> <https://cdm.unfccc.int/methodologies/DB/XP2LKUSA61DKUQC0PIWPGWDN8ED5PG>

<sup>2</sup> <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v2.pdf>

<sup>3</sup> <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v5.2.pdf>

			<b>WTGs</b>
1	17/12/2007	04	170a
2			170
3			171
4			236
5	17/03/2008	06	229
6			181
7			180
8			163
9			226
10			230
11	25/06/2008	08	173
12			231
13			174
14			233
15			232
16			234
17			169A
18			237
19	07/07/2008	10	168
20			169
21			235
22			136
23			137
24			138
25			139
26			140
27			141
28			179
29	11/09/2008	04	228
30			172
31			227
32			239
33	29/09/2008	04	167
34			176
35			178
36			164
37	10/10/2008	03	165
38			166
39			177

## B.2. Post-registration changes

### B.2.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents

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Not applicable

### B.2.2. Corrections

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Not applicable

**B.2.3. Changes to the start date of the crediting period**

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There was no change in crediting period start date

**B.2.4. Inclusion of monitoring plan**

&gt;&gt;

Not applicable

**B.2.5. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents**

&gt;&gt;

There were no changes from registered monitoring plan, applied methodology during current monitoring period.

**B.2.6. Changes to project design**

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No change in project design during current monitoring period.

**B.2.7. Changes specific to afforestation or reforestation project activity**

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As the project activity falls under Sectoral Scope 1: Energy industries (renewable - / non-renewable sources), this section is not applicable.

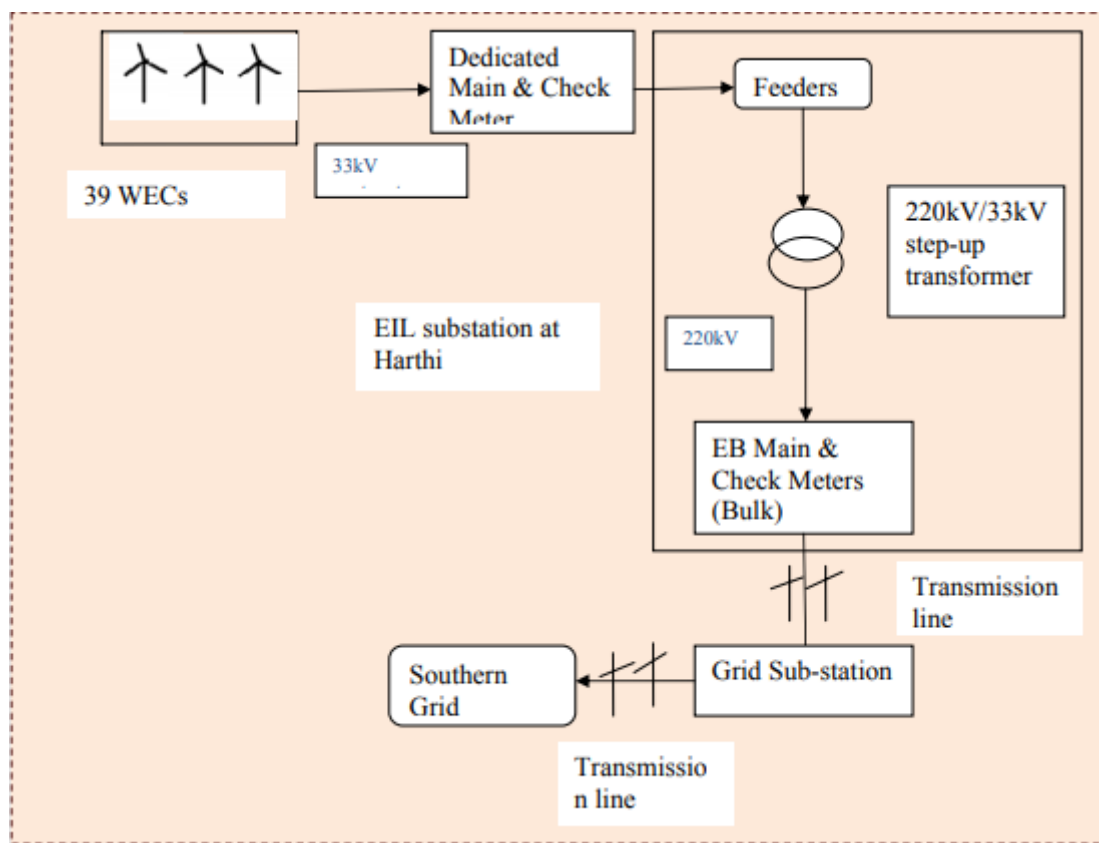
**SECTION C. Description of monitoring system**

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This approved monitoring methodology ACM0002 Version 11.0 requires monitoring of the following:

- Net electricity generation from the project activity

There is a set of main meter and check meter dedicated to the project activity at 33 kV metering point (billing point). The 33 kV metering points are further connected to step-up transformers and subsequently to the bulk meters (one set of main and check meter) at 220 kV metering point. Both the sets of meters are two-way tri-vector meters of accuracy class 0.2s capable of recording import and export of electricity. The line diagram of the metering system for the project activity is as follows:



In order to determine the net electricity supplied to the grid by the project activity, the state utility applies the transmission loss to the meter reading recorded at 33 kV metering point. The reading at 33 kV metering point is taken by the representatives of Enercon and the state utility. This reading is recorded in the form of JMR (Form B) and is signed by the representatives of Enercon and state utility. Both electricity export and import are metered at this metering point.

The electricity supplied to the grid is apportioned for the transmission Loss. The Joint meter reading contains the following data:-

- Electricity Export to the grid
- Electricity Import from the grid
- Transmission Loss (between the 33 kV metering point and 220 kV pooling substation)
- Net Electricity supplied to the grid which is  
**Electricity Export minus 115% of Electricity Import minus Transmission Loss**

$$EG_y = G_p - L_i = (G_{pe} - 115\% \cdot G_{pi}) - L_i$$

Where,

$EG_y$  = Net Electricity supplied to grid by the project activity

$G_p = (G_{pe} - 115\% \cdot G_{pi})$

$G_{pe}$  = Electricity export recorded at the meter(s) connected 39 machines of the project activity

$G_{pi}$  = Electricity import recorded at the meter(s) connected 39 machines of the project activity.

$L_i$  = Transmission loss

Transmission loss is certified by the state utility in the JMR (Form B). The procedure for calculation of transmission loss by the State utility is as follows:

$$L_i: G_p \cdot ((\sum jG_j - N) / \sum Gh_j)$$

Where,

$\sum G_j$  = Summation of electricity generation data measured at all the feeders connected to pooling substation

N = Electricity generation data measured at substation from the feeders emanating from the pooling substation

$G_p$  = Generation of electricity by the project activity recorded at the feeder connected to 39 turbines of the project activity [Export ( $G_{pe}$ ) – 115%\* Import ( $G_{pi}$ )]

The net electricity supplied to the grid can be cross checked from the invoices raised on the state utility for supply of net electricity supplied to the grid.

The accuracy of monitoring parameter is ensured by adhering to the calibration and testing procedure. All the meters are tested for accuracy once every year. The project adheres to all the mandatory regulatory and statutory requirements at the state as well as national level. Enercon is Operation and Maintenance contractor for the project activity and provides the daily generation report to the project proponent.

### Metering details & QA/ QC procedures

**Metering Equipment:** There is a set of main meter and check meter dedicated to the project activity at 33 kV metering point (billing point). The 33 kV metering points are further connected to step-up transformers and subsequently to the bulk meters (one set of main and check meter) at 220 kV metering point. Both the sets of meters are two-way tri-vector meters of accuracy class 0.2s capable of recording import and export of electricity.

**Meter Readings:** The Net electricity supplied to the grid is recorded in the form of Joint Meter Reading (JMR) (Form B) in the presence of State Utility and the representative of the Project proponent (Enercon). The Joint meter reading contains the value of energy imported and exported and the net supply to the grid during the recording period. This JMR is certified by the Authorized representative of the state utility and representative of the Company (Enercon). These certified readings are then used to prepare the invoices to be raised on State Utility. Therefore, the net electricity supplied to the grid as mentioned in the JMR can be cross-checked with the invoices.

**Inspection of Energy Meters:** All main and check energy meters (export and import) are of 0.2s accuracy class. Each meter is jointly inspected and sealed on behalf of the Parties and is not to be interfered with by either Party except in the presence of the other Party or its accredited representatives.

All the parameters mentioned in the monitoring plan are being maintained at the plant. The calibration of monitoring equipment is being maintained as per the requirement of KPTCL and the same is being done regularly.

If during the meter test checking,

- The main meter is found to be within the permissible limit of error and the corresponding check meter is beyond the permissible limits, then the meter reading will be as per the main meter as usual. The check meter shall, however, be calibrated immediately.
- The main meter is found to be beyond permissible limits of error, but the corresponding check meter is found to be within permissible limit of error, then the meter reading for the month up to the date and time of such test shall be as per the check meter. The main meter shall be calibrated immediately and meter reading for the period thereafter till the next monthly meter reading shall be as per the calibrated main meter.
- Both the main meters and the corresponding check meters are found to be beyond the permissible limits of error, both the meters shall be immediately calibrated and the correction will be applied to the reading registered by the main meter to arrive the correct reading of energy supplied to the grid for the period up to the last test.

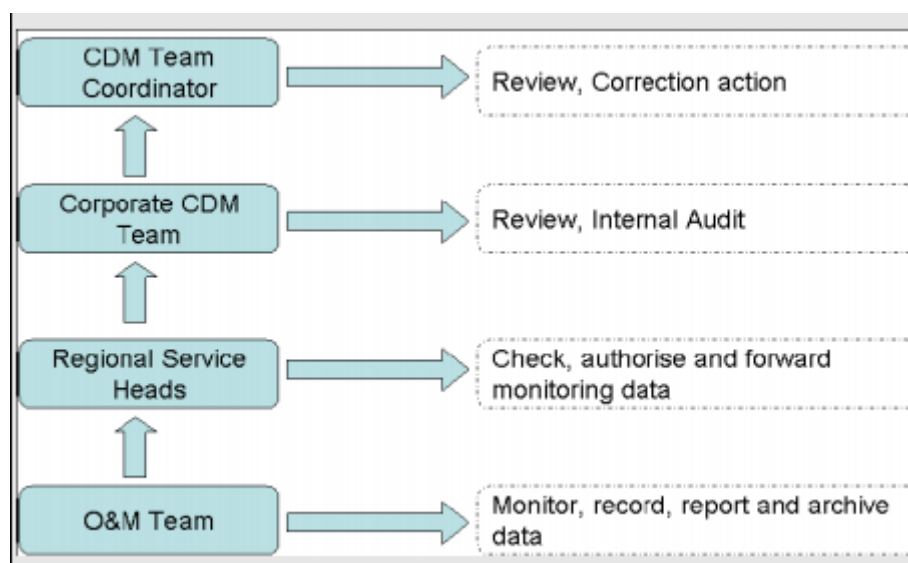
In case of the failures such as burning of the meter and the erratic display of the metered parameters and when the error found in testing the meters is beyond the permissible limit of error, the meter shall be calibrated immediately and the correction will be applied to the reading registered by the main meter to arrive the correct reading of energy supplied to the grid for the period up to last test.

The calibration details for the meters (both main & check meter) at 33 kV metering point and the bulk meters (both main & check meters) in feeder-2 (the WTGs of Generacion Eolica India Limited is connected to feeder-2) at 220 kV sub-station have been provided in Annex 1.

#### **Training and maintenance requirements:**

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 Wind Energy Converters (WECs), it is extremely essential, that the engineers and technicians understand the machines and keep them in good health. In order to ensure that Enercon's staffs that are positioned to take care of all the activities starting from project construction to operation and maintenance, Enercon Training Academy provides need based periodical training to meet the requirements of the project. The training is contemporary, which results in imparting focused knowledge leading to value addition to the attitude and skills of all the trainees. The training facility is located at Daman and is fully functional and equipped with qualified trainers, training equipment, classrooms and hostel facilities.

The operational and management structure implemented is as follows:





## SECTION D. Data and parameters

### D.1. Data and parameters fixed ex ante

Data/Parameter	$EF_{grid, OM, y}$
Unit	tCO <sub>2</sub> / MWh
Description	Operating Margin Emission Factor of (erstwhile) Southern Regional Electricity Grid
Source of data	"CO <sub>2</sub> Baseline Database for Indian Power Sector" Version 04 <sup>4</sup> , published by the Central Electricity Authority, Ministry of Power, Government of India.
Value(s) applied	0.998157
Choice of data or measurement methods and procedures	Operating Margin Emission Factor has been calculated by the Central Electricity Authority using the simple OM approach in accordance with ACM0002, Version 11.0
Purpose of data/parameter	For the calculation of baseline emissions
Additional comments	The value is calculated on ex-ante basis and it will remain same throughout the crediting period

Data/Parameter	$EF_{grid, BM, y}$
Unit	tCO <sub>2</sub> / MWh
Description	Build Margin Emission Factor of (erstwhile)Southern Regional Electricity Grid
Source of data	"CO <sub>2</sub> Baseline Database for Indian Power Sector" Version 4 <sup>5</sup> published by the Central Electricity Authority, Ministry of Power, Government of India.
Value(s) applied	0.71332
Choice of data or measurement methods and procedures	Build Margin Emission Factor has been calculated by the Central Electricity Authority in accordance with ACM0002, Version 11.0
Purpose of data/parameter	For the calculation of baseline emissions
Additional comments	The value is calculated on ex-ante basis and it will remain same throughout the crediting period.

Data/Parameter	$EF_{grid, CM, y}$
Unit	tCO <sub>2</sub> / MWh
Description	CO <sub>2</sub> Build margin emission factor of the grid
Source of data	"CO <sub>2</sub> Baseline Database for Indian Power Sector" Version 04 <sup>6</sup> , published by the Central Electricity Authority, Ministry of Power, Government of India.
Value(s) applied	0.92694
Choice of data or measurement methods and procedures	Combined Margin Emission Factor has been calculated by the Central Electricity Authority in accordance with CDM methodologies: ACM0002 Version 11.0 and Tool to Calculate the emission Factor for an Electricity System. In case of wind power projects default weights of 0.75 for $EF_{OM}$ and 0.25 for $EF_{BM}$ are applicable as per ACM0002.

<sup>4</sup> [https://cea.nic.in/reports/others/thermal/tpece/cdm\\_co2/user\\_guide\\_ver4.pdf](https://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver4.pdf)

<sup>5</sup> [https://cea.nic.in/reports/others/thermal/tpece/cdm\\_co2/user\\_guide\\_ver4.pdf](https://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver4.pdf)

<sup>6</sup> [https://cea.nic.in/reports/others/thermal/tpece/cdm\\_co2/user\\_guide\\_ver4.pdf](https://cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver4.pdf)

Purpose of data/parameter	For the calculation of baseline emissions
Additional comments	The value is calculated on ex-ante basis and it will remain same throughout the crediting period.

## D.2. Data and parameters monitored

<b>Data/Parameter</b>	<b>EG<sub>y</sub></b>
Unit	MWh
Description	Net Electricity supplied to grid by the project
Measured/calculated/Default	Calculated
Source of data	Electricity supplied to the grid as per Joint Meter Reading (FORM-B) taken at 33 kV metering point. This value can be cross-checked by the tariff invoices raised on KPTCL/HESCOM.
Value(s) of monitored parameter	40,822.29
Monitoring equipment	Details of meters have been provided in Annex 1.
Measuring/reading/recording frequency	Continuous monitoring and Monthly recording
Calculation method (if applicable)	Net Electricity supplied to the Grid [Electricity Export-115% of Electricity Import- Transmission Loss]
QA/QC procedures	The value of this parameter can be cross checked with all the invoices generated for the sold electricity during the year y. Energy meters are calibrated once in a year
Purpose of data/parameter	For the calculation of baseline emissions
Additional comments	This data will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later

<b>Data/Parameter</b>	<b>Gp<sub>e</sub></b>
Unit	MWh
Description	Electricity Export recorded at the meter(s) connected 39 machines of the project activity.
Measured/calculated/default	Measured
Source of data	Electricity export to the grid as per Joint Meter Reading (Form B) taken at 33 kV metering point. This value can be cross-checked by the tariff invoices raised on HESCOM
Value(s) of monitored parameter	41,215.13
Monitoring equipment	Details of meters have been provided in Annex 1.
Measuring/reading/recording frequency	Continuous monitoring and monthly recording
Calculation method (if applicable)	This parameter is measured by the equipment (energy meter) and considered accordingly; hence calculation method is not applicable
QA/QC procedures	The value of this parameter can be cross checked with all the invoices generated for the sold electricity during the year y. Energy meters are calibrated once in a year
Purpose of data/parameter	For the calculation of baseline emissions
Additional comments	This data will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later

Data/Parameter	G <sub>p</sub>
Unit	MWh
Description	Electricity Import recorded at the meter(s) connected 39 machines of the project activity.
Measured/calculated/default	Measured
Source of data	Electricity import from the grid as per Joint Meter Reading (Form B) taken at 33 kV metering point. This value can be cross-checked by the tariff invoices raised on HESCOM.
Value(s) of monitored parameter	47.12
Monitoring equipment	Details of meters have been provided in Annex 1.
Measuring/reading/recording frequency	Monthly recording
Calculation method (if applicable)	This parameter is measured by the equipment (energy meter) and considered accordingly; hence calculation method is not applicable
QA/QC procedures	The value of this parameter is cross checked with all the invoices generated for the sold electricity during the year y.  Furthermore, Energy meters are calibrated once in a year.
Purpose of data/parameter	For the calculation of baseline emissions
Additional comments	This data will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later

Data/Parameter	L <sub>i</sub>
Unit	MWh
Description	Transmission loss between the metering point for the project activity feeding the pooling substation of Enercon and the metering point at EB Substation.
Measured/calculated/default	Measured
Source of data	Electricity import from the grid as per Joint Meter Reading (Form B) taken at 33 kV metering point. This value can be cross-checked by the tariff invoices raised on HESCOM.
Value(s) of monitored parameter	345.72
Monitoring equipment	Details of meters have been provided in Annex 1.
Measuring/reading/recording frequency	Monthly recording
Calculation method (if applicable)	Calculated as per the formula described in section C.
QA/QC procedures	The value of this parameter is cross checked with all the invoices generated for the sold electricity during the year y.  Furthermore, Energy meters are calibrated once in a year
Purpose of data/parameter	For the calculation of baseline emissions
Additional comments	This data will be kept in electronic form and hard copy format for 2 years after the end of crediting period or the last issuance of CERs for this project activity whichever occurs later

**D.3. Implementation of sampling plan**

&gt;&gt;

Sampling is not applicable in this project activity

**SECTION E. Calculation of emission reductions or net anthropogenic removals****E.1. Calculation of baseline emissions or baseline net removals**

&gt;&gt;

As described in the registered PDD, emission reductions ( $ER_y$ ) are calculated as

$$ER_y = BE_y - PE_y - LE_y$$

Where,

 $ER_y$  is the Emission reductions during the year y $BE_y$  is the Baseline emissions during the year y $PE_y$  is the Project emissions during the year y $LE_y$  is the Leakage emissions during the year y**Baseline emissions:**

As per the applied methodology, ACM0002, Version 11.0, the baseline emissions are calculated based on the given formula:

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

Where,

 $EG_{PJ,y}$  is Net electricity supplied to the grid in year y and is applied directly from JMR (Form B) certified by state utility. This value can also be cross checked from the invoice. $EF_{grid,CM,y}$  is  $CO_2$  emission factor of the grid

$$EF_{CO_2, grid, y} = 0.92694 \text{ tCO}_2/\text{MWh}$$

Net electricity supplied to the grid by the Project during current monitoring period = 40,973.11 MWh

$$BE_y = 40,822.29 \text{ MWh} \times 0.92694 \text{ tCO}_2/\text{MWh} = 37,839 \text{ tCO}_2\text{e (Rounded Down)}$$

**E.2. Calculation of project emissions or actual net removals**

&gt;&gt;

As per the applied methodology ACM0002, Version 11, the project emissions are zero.

Therefore,

$$PE_y = 0 \text{ tCO}_2\text{e}$$

**E.3. Calculation of leakage emissions**

&gt;&gt;

As per ACM0002, Version 11.0, leakage emissions are to be taken into account "If the energy generating equipment is transferred from another activity, leakage is to be considered. Since transfer of equipment is not envisaged in the project activity, the leakage emissions will be equal to zero.

Therefore,

$$LE_y = 0 \text{ tCO}_2\text{e}$$

**E.4. Calculation of emission reductions or net anthropogenic removals**

	Baseline GHG emissions or baseline net GHG removals (t CO <sub>2</sub> e)	Project GHG emissions or actual net GHG removals (t CO <sub>2</sub> e)	Leakage GHG emissions (t CO <sub>2</sub> e)	GHG emission reductions or net anthropogenic GHG removals (t CO <sub>2</sub> e)			
				Before 01/01/2013	From 01/01/2013 until 31/12/2020	From 01/01/2021	Total amount
<b>Total</b>	37,839	0	0	0	37,839	0	37,839

**E.5. Comparison of emission reductions or net anthropogenic removals achieved with estimates in the registered PDD**

Amount achieved during this monitoring period (t CO <sub>2</sub> e)	Amount estimated ex ante for this monitoring period in the PDD (t CO <sub>2</sub> e)
37,839	64,095

**E.5.1. Explanation of calculation of “amount estimated ex ante for this monitoring period in the PDD”**

&gt;&gt;

Considering the annual average emission reductions as per the registered PDD which is 64,095 tCO<sub>2</sub>e per year, the estimated emission reductions attributed to this monitoring period comes out to be 37,839 tCO<sub>2</sub>e.

**E.6. Remarks on increase in achieved emission reductions**

&gt;&gt;

During this project activity, the actual emission reductions obtained is lower than the estimated value. The lower value of actual emission reductions has been attributed to variation in wind flow pattern, grid availability and other reasons which are beyond the control of PP

**E.7. Remarks on scale of small-scale project activity**

&gt;&gt;

This is not a small scale project activity.

## Annex I: Calibration details of energy meters

## Calibration details for the meters (main &amp; check meter) at 33 kV metering point

Meter Details	Previous calibration	Validity	Current calibration	Validity	Remarks
Type: Main Meter Meter No.: 5389382 Make: L & T Accuracy class: 0.2s	16-05-2019	15-05-2020	24-07-2020	23-07-2021	Calibration delayed by approx. two months. However meter was found to be operating within the permissible limit of error of 0.2%. Same error margin is applied on export and import data for the months of May, Jun, Jul 2020.
Type: Check Meter Meter No.: 7022924 Make: L & T Accuracy class: 0.2s	16-05-2019	15-05-2020	-	-	The check meter was found to be working outside the permissible range of error 0.389%. The meter replaced on 24/07/2020 with a new check meter 19008132.
Type: Check Meter Meter No.: 19008132 Make: L & T Accuracy class: 0.2s	-	-	24-07-2020	23-07-2021	This meter was installed on 24/07/2020.

## Calibration details for the bulk meters (main &amp; check meters) at 220 kV sub-station

Meter Type	Previous calibration	Validity	Current calibration	Validity	Remarks
Type: Main Meter Meter No.: 7022908 Make: L & T Accuracy class: 0.2s	09-09-2019	08-09-2020	-	-	The meter was replaced with 20005932 on 23/11/2020. Calibration delayed by approx. two months. However meter was found to be operating within the permissible limit of error of 0.2%. Same error margin is applied on transmission loss for the months of Sep, Oct, Nov 2020.
Type: Main Meter Meter No.: 20005931 Make: L & T Accuracy class: 0.2s	-	-	23-11-2020	22-11-2021	This meter was installed on 23/11/2020.
Type: Check Meter Meter No.: 7022915 Make: L & T Accuracy class: 0.2s	09-09-2019	08-09-2020	-	-	The meter was replaced with 20006010 on 23/11/2020. Calibration delayed by approx. two months.
Type: Check Meter Meter No.: 20006010 Make: L & T Accuracy class: 0.2s	-	-	23-11-2020	22-11-2021	This meter was installed on 23/11/2020.

## Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
08.0	6 April 2021	Revision to: <ul style="list-style-type: none"> <li>• Reflect the “Clarification: Regulatory requirements under temporary measures for post-2020 cases” (CDM-EB109-A01-CLAR).</li> </ul>
07.0	31 May 2019	Revision to: <ul style="list-style-type: none"> <li>• Ensure consistency with version 02.0 of the “CDM project standard for project activities” (CDM-EB93-A04-STAN);</li> <li>• Add a section on remarks on the observance of the scale limit of small-scale project activity during the crediting period;</li> <li>• Add "changes specific to afforestation or reforestation project activity" as a possible post-registration changes;</li> <li>• Clarify the reporting of net anthropogenic GHG removals for A/R project activities between two commitment periods;</li> <li>• Make editorial improvements.</li> </ul>
06.0	7 June 2017	Revision to: <ul style="list-style-type: none"> <li>• Ensure consistency with version 01.0 of the “CDM project standard for project activities” (CDM-EB93-A04-STAN);</li> <li>• Make editorial improvements.</li> </ul>
05.1	4 May 2015	Editorial revision to correct version numbering.
05.0	1 April 2015	Revisions to: <ul style="list-style-type: none"> <li>• Include provisions related to delayed submission of a monitoring plan;</li> <li>• Provisions related to the Host Party;</li> <li>• Remove reference to programme of activities;</li> <li>• Overall editorial improvement.</li> </ul>
04.0	25 June 2014	Revisions to: <ul style="list-style-type: none"> <li>• Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0));</li> <li>• Include provisions related to standardized baselines;</li> <li>• Add contact information on a responsible person(s)/ entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1;</li> <li>• Change the reference number from <i>F-CDM-MR</i> to <i>CDM-MR-FORM</i>;</li> <li>• Editorial improvement.</li> </ul>
03.2	5 November 2013	Editorial revision to correct table in page 1.
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB 70, Annex 11).

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01.0	28 May 2010	EB 54, Annex 34. Initial adoption.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: monitoring report		