 <div style="text-align: center;"> <b>Monitoring report form for CDM project activity</b>  <b>(Version 07.0)</b> </div>		
<b>MONITORING REPORT</b>		
<b>Title of the project activity</b>	50.4 MW wind power project by EN Renewable Energy Pvt. Ltd	
<b>UNFCCC reference number of the project activity</b>	4364	
<b>Version number of the PDD applicable to this monitoring report</b>	05	
<b>Version number of this monitoring report</b>	01	
<b>Completion date of this monitoring report</b>	22/04/2020	
<b>Monitoring period number</b>	03	
<b>Duration of this monitoring period</b>	01/01/2013 to 31/03/2018 (Inclusive of both days)	
<b>Monitoring report number for this monitoring period</b>	NA	
<b>Project participants</b>	1. EN Renewable Energy Limited (India, Private Entity) 2. Kingdom of Spain (Spain) 3. Swedish Energy Agency (Sweden) 4. Asian Development Bank as Trustee of the Asia Pacific Carbon Fund (Spain and Sweden)	
<b>Host Party</b>	INDIA	
<b>Applied methodologies and standardized baselines</b>	<b>Methodology:</b> Approved monitoring methodology ACM0002 "Consolidated baseline methodology for grid connected electricity generation from renewable sources", Version 12.3.0  <b>Standard baselines:</b> NA	
<b>Sectoral scopes</b>	Sectoral Scope : 01 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
	0	402,048 tCO <sub>2</sub> e
<b>Amount of GHG emission reductions or net anthropogenic GHG removals estimated ex ante for this monitoring period in the PDD</b>	552,433 tCO <sub>2</sub> e	

**SECTION A. Description of project activity****A.1. General description of project activity**

EN Renewable Energy Limited ("ENRE") has installed 50.4 MW wind farm in the state of Karnataka in India. The purpose of the project activity is to utilize renewable wind energy for generation of electricity. The project activity replaces anthropogenic emissions of greenhouse gases (GHG's) into the atmosphere by displacing the equivalent amount of electricity generation through the operation of existing fuel mix in the grid comprising mainly fossil fuel based power plants and future capacity expansions connected to the grid.

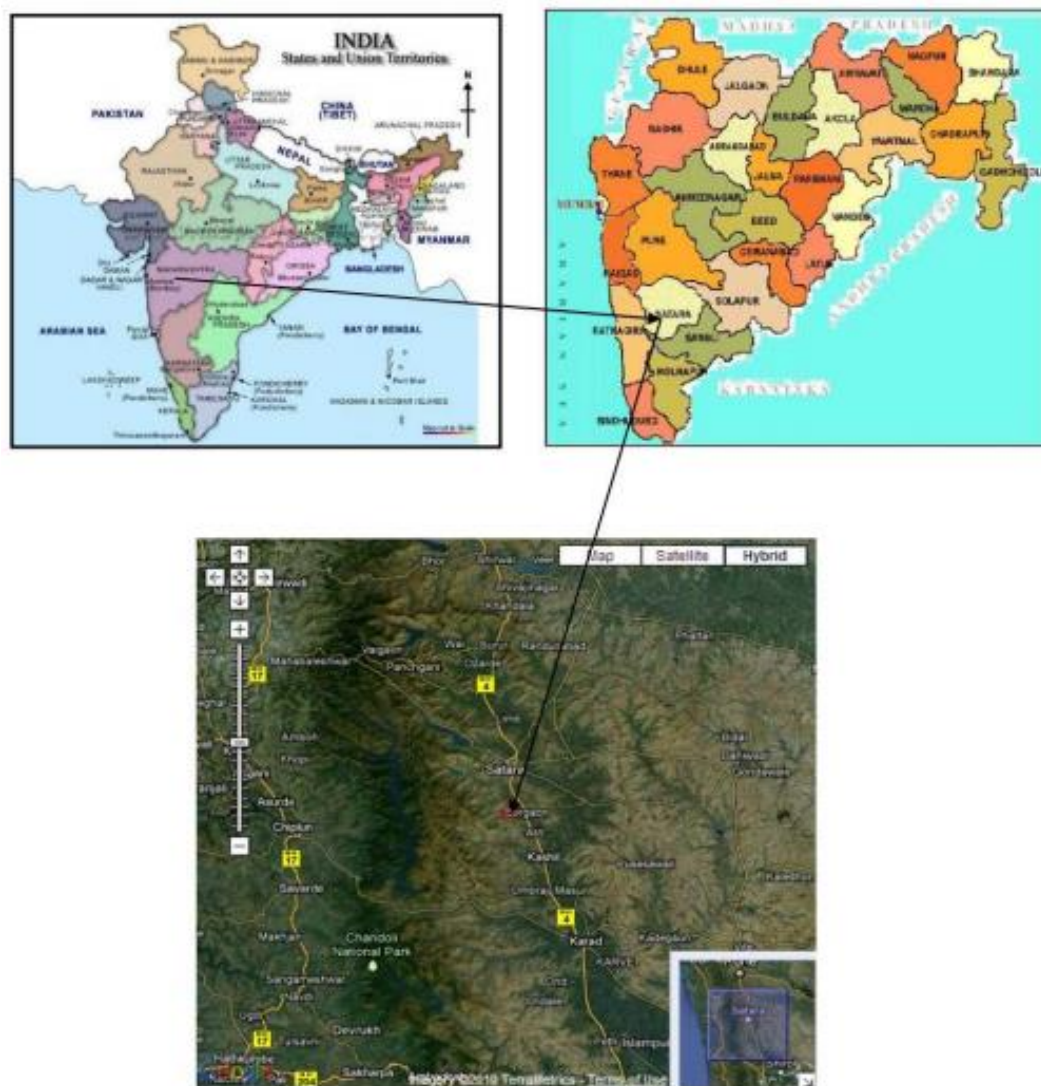
The project activity consists of 63-wind energy converters (WECs) of Enercon make (E-53) 800 kW each totaling to the capacity of 50.4 MW. with internal electrical lines connecting the project activity with local evacuation facility. The average life time of the WEC is around 20 years as per the industry standards.

The first machine under the project activity was commissioned on 16th February 2011 and the last machine under the project activity was commissioned on 31st March 2011. The expected operational lifetime of the project is for 20 years. This is the second monitoring report for the project activity. The total emission reductions achieved under the monitoring period 01/01/2013 to 31/03/2018 (including first and last day) is 402,048 tCO<sub>2</sub>e.

**A.2. Location of project activity**

>>

The Project is spread across Sunahatti, Ganginahal, Kakti, Kanabargi, Baramanhatti, Nandi and Deshnur villages in Bailhongal and Belgaum Taluk of Belgaum District of Karnataka state in India. Nearest airport and railway station are at Belgaum.



### 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 Party)	EN Renewable Energy Limited (Private entity)	No
Spain	Kingdom of Spain	Yes
Sweden	Swedish Energy Agency	Yes
Spain and Sweden	Asian Development Bank as Trustee of the Asia Pacific Carbon Fund	Yes

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

>>

Title: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" Version: 12.3.0<sup>1</sup>

ACM0002 draws upon the following tools which have been used in the PDD:

- Tool to calculate the emission factor for an electricity system – Version 02
- Tool for the demonstration and assessment of additionality – Version 5.2

<sup>1</sup> <http://cdm.unfccc.int/methodologies/DB/UB3431UT9I5KN2MUL2FGZXZ6CV71LT>

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

&gt;&gt;

The length of the Crediting period of the project activity as per registered PDD is 7 years (Renewable) starting from 01/04/2011 to 31/03/2018.

**SECTION B. Implementation of project activity****B.1. Description of implemented project activity**

&gt;&gt;

The first machine under the project activity was commissioned on 16th February, 2011 and the last machine under the project activity was commissioned on 31st March, 2011. During the monitoring period the project activity was operated and monitored in accordance with the applicable baseline and monitoring methodology ACM0002 (Version 12.3.0) and registered PDD.

The first machine under the project activity was commissioned on 16th February, 2011 and the last machine under the project activity was commissioned on 31st March, 2011. During the monitoring period the project activity was operated and monitored in accordance with the applicable baseline and monitoring methodology ACM0002 (Version 12.3.0) and registered PDD.

The other salient features of the state-of-art-technology are:

Turbine model	Enercon E- 53
Rated power	800 KW
Rotor diameter	53 m
Hub height	75 m
Turbine Type	Gearless horizontal axis wind turbine with variable rotor speed
Power regulation	Independent electromechanical pitch system for each blade.
Cutin windspeed	2.5 m/s
Rated wind speed	12 m/s
Cutout Windspeed	28-34 m/s
Extreme Wind Speed	59.5 m/s
Rated rotational speed	32 rpm
Operating range rot. speed	12-29 rpm
Orientation	Upwind
No of Blades	3
Blade Material	Glass Fibre reinforced Epoxy
Gear box type	Gear less
Generator type	Synchronous generator
Braking	Aerodynamic
Output Voltage	400 V
Yaw System	Active yawing with 4 electric yaw drives with brake motor and friction bearing
Tower	74 m concrete

Enercon (India) Ltd has secured and facilitated the technology transfer for wind based renewable energy generation from Enercon GmbH, has established a manufacturing plant at Daman in India, where along with other components the "Synchronous Generators" using "Vacuum Impregnation" technology are manufactured.

There are no changes that have happened in project activity which may impact the applicability of the methodology. Enercon operation and maintenance activities are ISO certified and all the events are recorded in the log book available at the project site. Referring to the data available it can be inferred that there have not been any major special events for any of the machines that are included in the project activity. As a part of regular maintenance the machines are stopped for mechanical

and electrical maintenance for 16 to 18 hours annually and for visual inspection for 6 to 7 hours quarterly.

## **B.2. Post-registration changes**

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

>>

There is no temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents.

### **B.2.2. Corrections**

>>

There is no correction from the registered PDD during this monitoring period.

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

>>

There is no changes to the start date during this monitoring period.

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

>>

There are no permanent changes from registered monitoring plan or applied methodology.

### **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**

>>

There are no permanent changes from registered monitoring plan or applied methodology.

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

>>

There is no changes to the project design.

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

>>

This is not an afforestation or reforestation project activity.

## **SECTION C. Description of monitoring system**

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Approved monitoring methodology ACM0002 Version 12.1.0 Sectoral Scope: 1, "Consolidated monitoring methodology for zero-emissions grid-connected electricity generation from renewable sources", by CDM - Meth Panel is proposed to be used to monitor the emission reductions.

This approved monitoring methodology requires monitoring of the following:

- Net Electricity generation from the project activity; and
- Operating margin emission factor and build margin emission factor of the grid, where ex post determination of grid emission factor has been chosen.

Since the baseline methodology is based on ex ante determination of the baseline, the monitoring of operating margin emission factor and build margin emission factor is not required. Further, wind based electricity generation is not associated with any kind of leakages. Hence, the sole parameter for monitoring is the electricity generated by the project and supplied to the grid.

The reading will be taken by the representatives of Enercon and the State utility at the meter(s) for the project activity connecting 63 turbines at the project site and feeding the pooling substation. This

reading is recorded in the form of JMR (Form B) and is signed by the representatives of Enercon and State Utility. The electricity export and import will be metered at this metering point. Transmission loss between metering point feeding the pooling substation and the metering point at the EB Substation/Switching Station is applied to the meter reading taken at the feeder connecting 63 turbines of the project activity and feeding the pooling substation.

Transmission loss given in the JMR will be directly applied to the meter readings taken at the metering point of the project activity and feeding to pooling substation of Enercon. Net Electricity exported to the grid is calculated by applying transmission loss to the meter reading taken at the metering point of the project activity connecting 63 turbines and feeding to pooling substation of Enercon.

The Joint meter reading contains the following data:-

1. Electricity Export
2. Electricity Import
3. Transmission Loss (Between the metering point feeding the pooling substation and the EB/Switching substation)
4. Net Electricity exported to the Grid [ $\text{Electricity Export} - 115\% \times \text{Electricity Import} - \text{Transmission Loss}$ ]

Joint Meter reading is signed by the representatives of Enercon and the state utility. The meter readings (both export and import), transmission loss and net electricity exported to the grid are noted in the JMR.

Hence all these values will be reproduced from the JMR at the time of verification. The Project is operated and managed by ENRE. The operational and maintenance contract for the project is with Enercon. Enercon is an ISO 9001:2000 certified Quality Management system from Germanischer Lloyd.

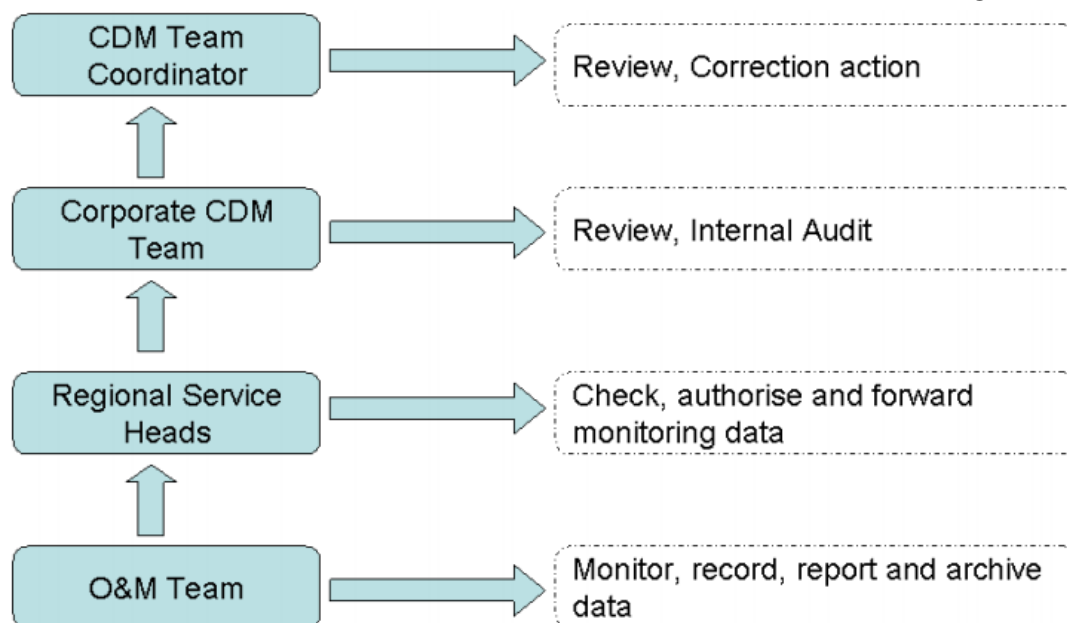
Enercon follows the documentation practices to ensure the reliability and availability of the data for all the activities as required from the identification of the site, wind resource assessment, logistics, finance, construction, commissioning and operation of the wind power project. The accuracy of monitoring parameter is ensured by adhering to the calibration and testing procedure.

The project will adhere 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. The project proponent also maintains the records of daily generation report and joint meter report.

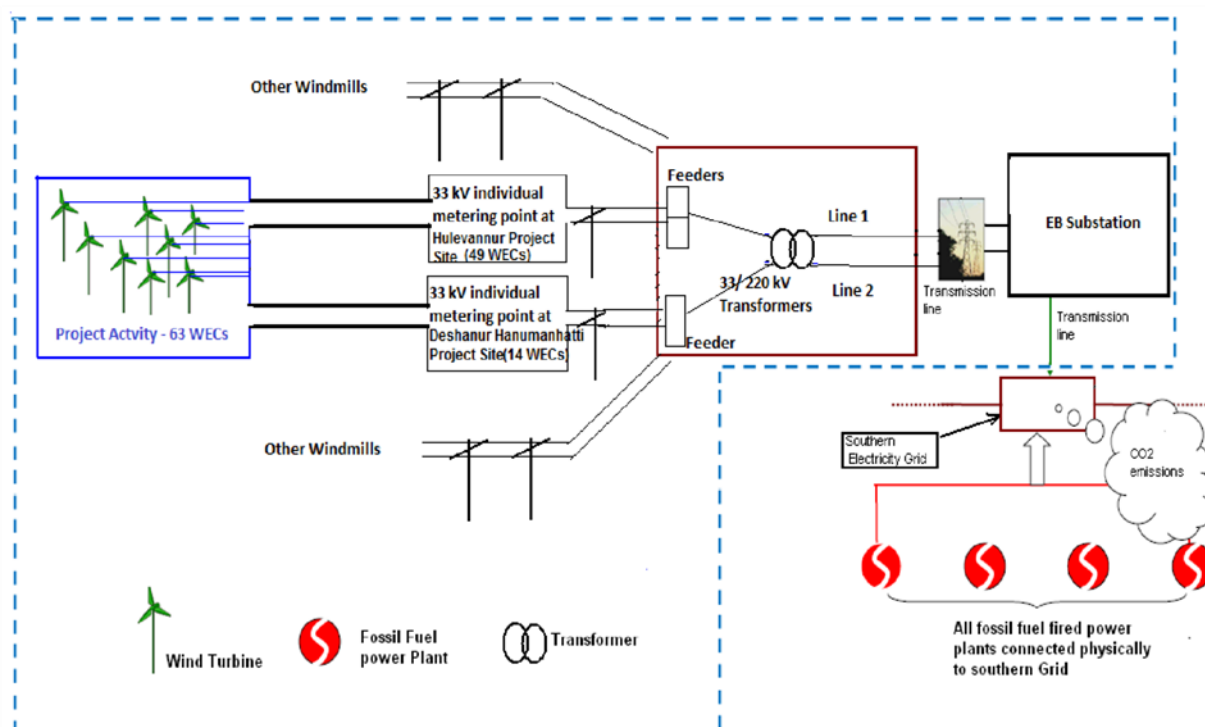
#### **Training and maintenance requirements:**

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 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. The Enercon Training Academy provides need-based training to meet the training requirements of Enercon projects. The training is contemporary, which results in imparting focused knowledge leading to value addition to the attitude and skills of all trainees. This ultimately leads to creativity in problem solving.

The operational and management structure implemented is as follows:



A detailed line diagram of project activity is shown in below picture. From the below picture it is clear that the electricity supplied to the grid will be metered at two 33 kV metering point, where billing is to be done by Electricity Board officials on monthly basis. Output of feeder lines at both 33 kV metering points is step up to 220 kV using step up transformer. Output of transformer is connected to 220 kV Electricity Board substation. From 220 kV Electricity Board sub-station electricity is supplied to southern electricity grid.



### Calibration Frequency:

The metering equipments were inspected & calibrated by state utility. The metering equipments are of Trivector Meter type having annual frequency of calibration. Calibration details for the main and check meters are as follows:-

Capacity (MW)	11.2	39.2
---------------	------	------

<b>No. of M/C</b>	14		49	
<b>Site</b>	Deshanur Hanumanhatti		Hulevannur	
<b>District</b>	Belgaum		Belgaum	
<b>Meter Type</b>	Main Meter	Check Meter	Main Meter	Check Meter
<b>Meter Sr. no.</b>	9142441	9142578	9142435	9142603
<b>Accuracy class</b>	0.2	0.2	0.2	0.2
<b>Calibration date</b>	24-01-12	24-01-12	20-01-12	20-01-12
<b>Next Calibration date</b>	21-03-16	21-03-16	21-03-16	21-03-16
<b>Next Calibration date</b>	24-01-17	24-01-17	24-01-17	24-01-17
<b>Next Calibration date</b>	21-07-17	21-07-17	21-07-17	21-07-17
<b>Due Dates</b>	20-07-18	20-07-18	20-07-18	20-07-18

## SECTION D. Data and parameters

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

<b>Data/Parameter</b>	<b>EF<sub>Grid, OM,y</sub></b>
Unit	tCO <sub>2</sub> e/MWh
Description	Operating Margin Emission Factor of Southern Regional Electricity Grid
Source of data	CO <sub>2</sub> Baseline Database for the Indian Power Sector, User Guide (Version 5)
Value(s) applied	0.98756
Choice of data or measurement methods and procedures	The Central Electricity Authority of India prepares the data.
Purpose of data/parameter	For the calculation of grid emission factor for estimating the baseline emissions
Additional comments	This database is an official publication of Government of India for the purpose of CDM baseline. It is based on most recent data available to the Central Electricity Authority and hence considered authentic. As the calculation of baseline emission has been done ex ante its value will remain fixed for the entire crediting period.

<b>Data/Parameter</b>	<b>EF<sub>Grid BM,y</sub></b>
Unit	tCO <sub>2</sub> e/ MWh
Description	Build Margin Emission Factor of Southern Regional Electricity Grid
Source of data	CO <sub>2</sub> Baseline Database for the Indian Power Sector, User Guide (Version 5)
Value(s) applied	0.81792
Choice of data or measurement methods and procedures	The Central Electricity Authority of India prepares the data
Purpose of data/parameter	For the calculation of grid emission factor for estimating the baseline emissions
Additional comments	This database is an official publication of Government of India for the purpose of CDM baselines. It is based on most recent data available to the Central Electricity Authority and hence considered authentic. As the calculation of baseline emission has been done ex ante its value will remain fixed for the first crediting period



<b>Data/Parameter</b>	$EF_y$ or $EF_{Grid, CM, y}$
Unit	tCO <sub>2</sub> e/ MWh
Description	Combined Margin Emission Factor of Southern Regional Electricity Grid
Source of data	CO <sub>2</sub> Baseline Database for the Indian Power Sector, User Guide (Version 5)
Value(s) applied	0.94515
Choice of data or measurement methods and procedures	The Central Electricity Authority of India prepares the data
Purpose of data/parameter	For the calculation of grid emission factor for estimating the baseline emissions
Additional comments	This database is an official publication of Government of India for the purpose of CDM baselines. It is based on most recent data available to the Central Electricity Authority and hence considered authentic. As the calculation of baseline emission has been done ex ante its value will remain fixed for the first crediting period

## D.2. Data and parameters monitored

<b>Data/Parameter</b>	<b>EG<sub>y</sub></b>
Unit	MWh (Mega-Watt hour)
Description	Net electricity supplied to the grid by the Project Activity
Measured/calculated/default	Net Electricity exported to the Grid [Electricity Export-115%*Electricity Import-Transmission Loss]
Source of data	Electricity supplied to the grid as per the joint meter report.
Value(s) of monitored parameter	425380.04 MWh
Monitoring equipment	Bidirectional Energy Meter. Meter details are described in section C.
Measuring/reading/recording frequency	Continuous recording and monthly reporting
Calculation method (if applicable)	$EG_y = G_p - Li$ Where $G_p$ : [export (G <sub>pe</sub> ) -115%* Import (G <sub>pi</sub> )] $Li$ : $G_{pe} * (L / \sum G_j)$
QA/QC procedures	QA/QC procedures are being implemented by state utility (Discom) pursuant to the provisions of the power purchase agreement and there will be no additional QA/QC procedures. Please refer Section C for an illustration of the provisions for QA/QC procedures. The value of net electricity supplied to grid is calculated by continuous measurement of export, import parameter and can be cross checked from the invoices raised to the state utility.
Purpose of data/parameter	Baseline Emissions Calculations
Additional comments	Nope

<b>Data/Parameter</b>	<b>G<sub>pe</sub></b>
Unit	MWh (Mega-Watt hour)
Description	Electricity Export recorded at the meter(s) connected 63 machines of the project activity
Measured/calculated/default	Measured : The export reading ins jointly noted from the meter(s) installed at pooling substation of Enercon

Source of data	Electricity export to the grid as per the joint meter report. This value has been taken from the JMR (Form B) and will be applied directly.
Value(s) of monitored parameter	430995.2
Monitoring equipment	Meters with accuracy class of 0.2 s at the metering point (Main Meter) is installed. Check meter with separate CT/PT of class 0.2s also installed. Quantity of electricity exported by the Project to the grid would be calculated using the sum of readings taken at the main/check meter installed at the Interconnection points.
Measuring/reading/recording frequency	Continuous monitoring and monthly recording
Calculation method (if applicable)	Data monitoring would take place at the substation on a continuous basis and is being recorded on monthly basis. On the basis of these readings taken, a generation report would also be issued by MSEDCL.
QA/QC procedures	The meters will be calibrated once each year by the state utility. Refer Section C for an illustration of the provisions for QA/QC procedures.
Purpose of data/parameter	For calculation of baseline emissions
Additional comments	None

<b>Data/Parameter</b>	$EG_{pi}$
Unit	MWh
Description	Electricity Import recorded at the meter(s) connected 63 machines of the project activity.
Measured/calculated/default	Measured: Electricity import from the grid has been recorded by the meter(s) connected to the 63 machines of the project activity feeding the pooling substation of Enercon.
Source of data	Electricity import from the grid as per the joint meter report. This value has been taken from the JMR (Form B) and will be applied directly.
Value(s) of monitored parameter	201.450
Monitoring equipment	The metering equipment details such as type, accuracy class, serial numbers and validity of test are better described under section C.
Measuring/reading/recording frequency	Continuous measurement, monthly recording. The reading is jointly noted by the representatives of state utility and Enercon.
Calculation method (if applicable)	NA
QA/QC procedures	The meters will be calibrated once each year by the state utility. Refer Section C for an illustration of the provisions for QA/QC procedures.
Purpose of data/parameter	Baseline Emission calculation
Additional comments	None

<b>Data/Parameter</b>	$L_i$
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/Switching Station.
Measured/calculated/default	Measured
Source of data	Transmission Loss has directly applied from the joint meter report (Form B) for the project activity. This value has been directly applied from the JMR (Form B).

Value(s) of monitored parameter	5383.488
Monitoring equipment	The metering equipment details such as type, accuracy class, serial numbers and validity of test are better described under section C.
Measuring/reading/recording frequency	Continuous measurement, monthly recording.
Calculation method (if applicable)	NA
QA/QC procedures	QA/QC procedures will be as implemented by state utility and the PP.
Purpose of data/parameter	Baseline Emission calculation
Additional comments	None

### D.3. Implementation of sampling plan

>>

Not applicable to the project activity.

## SECTION E. Calculation of emission reductions or net anthropogenic removals

### E.1. Calculation of baseline emissions or baseline net removals

>>

According to the approved methodology ACM0002 (Version 12.3.0) Baseline emissions are calculated as:-

$$BE_y = EG_y * EF_{\text{grid, CM, y}}$$

Where:

$BE_y$  = Baseline emissions in year y (tCO<sub>2</sub>e/yr)

$EG_y$  = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh/yr)

$EF_{\text{grid, CM, y}}$  = Combined margin CO<sub>2</sub>e emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO<sub>2</sub>e/MWh)

$$\begin{aligned} \text{Baseline emissions (BE}_y\text{)} &= 425380.04 \text{ (MWh)} * 0.9452 \text{ (tCO}_2\text{e/MWh)} \\ &= 402,048 \text{ tCO}_2\text{e} \end{aligned}$$

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

>>

Since the project activity is a renewable energy project which generates electricity using wind power and hence does not result in project emissions as per ACM0002, i.e.  $PE_y = 0 \text{ tCO}_2\text{e}$ .

### E.3. Calculation of leakage emissions

>>

According to ACM0002, the leakage of the Project is considered as zero, i.e.  $Ly=0 \text{ tCO}_2\text{e}$

**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	Total amount
<b>Total</b>	402,048	0	0	0	402,048	402,048

**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)
402,048	552,433

**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 105,239 tCO<sub>2</sub>e per year, the number of days covered during the current monitoring period comes out to be 1916 days, based upon which the estimated emission reductions attributed to this monitoring period comes out to be 552,433 tCO<sub>2</sub>e. The detailed calculation can be referred from the emission reduction sheet.

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

&gt;&gt;

The estimated annual emission reductions as per the registered PDD corresponding to the current monitoring period are 552,433 tCO<sub>2</sub>e. The actual emission reductions are 402,048 which are 27.22% less than the estimated emission reduction. The difference in the total CERs is due to low wind availability during the period leading to low plant load factor. The lower generation is acceptable.

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

&gt;&gt;

This is not a small scale project activity.

- - - - -

**Document information**

<i>Version</i>	<i>Date</i>	<i>Description</i>
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).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).

<i>Version</i>	<i>Date</i>	<i>Description</i>
01.0	28 May 2010	EB 54, Annex 34. Initial adoption.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: monitoring report		