



Monitoring report form
(Version 05.1)

MONITORING REPORT		
Title of the project activity	5.10 MW Wind Power Project by Shyam Metals & Energy Limited in Maharashtra, India	
UNFCCC reference number of the project activity	9697 ¹	
Version number of the monitoring report	02	
Completion date of the monitoring report	31/01/2017	
Monitoring period number and duration of this monitoring period	Monitoring period number – 01 Duration – 23/07/2013 to 30/09/2016	
Project participant(s)	Shyam Metals & Energy Limited	
Host Party	India	
Sectoral scope(s)	1 : Energy industries (renewable - / non-renewable sources)	
Selected methodology(ies)	AMS I.D, “Grid connected renewable electricity generation” (Version 17)	
Selected standardized baseline(s)	Not Applicable	
Estimated amount of GHG emission reductions or net GHG removals by sinks for this monitoring period in the registered PDD	27,195 ²	
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period	GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards
	0	23,457

¹ <https://cdm.unfccc.int/Projects/DB/RINA1374589833.08/view>

² The current monitoring period is of 1,166 days. As per registered PDD, annual estimation of ER for 365 days are 8,513 t CO₂e, thus for 1,166 days ER estimation are =8,513*1,166/365=27,195 t CO₂e.

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

The proposed CDM project activity is a wind power project in the state of Maharashtra, comprising six Wind Turbine Generators (WTGs), with a cumulative capacity of 5.10 MW. The proposed project activity is installation of six units of 850 kW wind turbine generators.

The purpose of the proposed project is to generate 8,935 MWh (estimation as per registered PDD) of average electricity per annum, using the kinetic energy of wind, thus resulting in zero emissions during electricity production. The power generated will be supplied to the state electricity board and will replace the equal amount of power which would have been generated by fossil fuel-dominated NEWNE grid.

The proposed project activity is combination of freshly-installed WTGs with an aggregate capacity of 5.1 MW. The proposed project activity is using technically and commercially proven wind turbines from Gamesa Wind Turbines Pvt Ltd. The applied technology is considered to be one of the most environmentally friendly and safe technologies available as the operation of the wind turbine does not emit any GHGs or any other harmful gases unlike the operation of conventional power plants. The proposed project shall use the kinetic energy in wind to drive the wind turbine blades which generates electricity.

List of the facilities, systems and equipment that will be installed by the project activity have been tabulated below

Label	GJN 47	GJ 09 N1	GJ41	GJ 43N	GJN 5	GJN 7
Survey Field No.	19	122	12	14	151	150
Village	Malal	Rampur	Malal	Malal	Rampur	Rampur
Capacity	0.85 MW	0.85 MW	0.85 MW	0.85 MW	0.85 MW	0.85 MW
Make	Gamesa	Gamesa	Gamesa	Gamesa	Gamesa	Gamesa
Model No	G58	G58	G58	G58	G58	G58
Latitude (N)	17°00'57.82"	17°00'29.01"	17°00'55.74"	17°00'55.97"	17°00'43.43"	17°00'35.58"
Longitude (E)	75°13'45.53"	75°10'23.35"	75°13'17.98"	75°13'17.3"	75°09'29.04"	75°09'36.05"
Commissioning date	26/09/2012	30/09/2012	30/09/2012	26/09/2012	31/03/2012	31/03/2012

All the installations are new The power will be generated at voltage of 690 V, which will be stepped up to 33 kV at transformers located in a small yard adjacent to each WTG, before being fed into 110/33/11 kV Jath substation, which is the grid interconnection point. Meter readings for billing purposes are noted at this substation with the help of two energy meters--main meter and check meter-- installed therein.

The total emission reductions for the current monitoring period account to 23,457 tCO₂e.

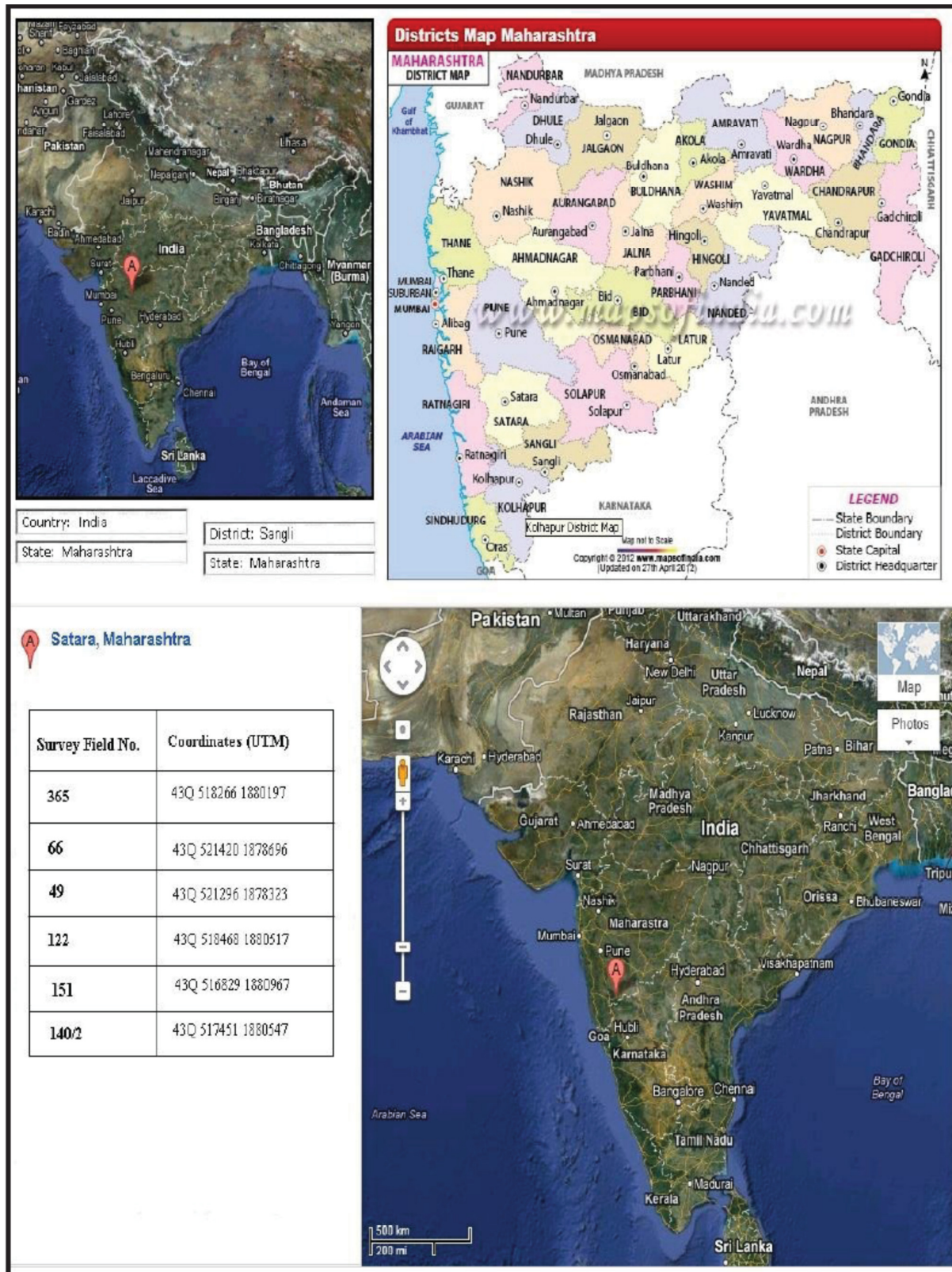
A.2. Location of project activity

District : Sangli
State : Maharashtra

Country : India

The project activity WTGs latitude and longitude are mentioned in section A.1 of MR.

The location map of the Project Activity is given below



A.3. Parties and project participant(s)

Party involved ((host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate whether the Party involved wishes to be considered as project participant (yes/no)
India (host)	Shyam Metalics & Energy Limited	NO

A.4. Reference of applied methodology and standardized baseline

The project activity has applied following baseline and monitoring methodology
AMS I.D, "Grid connected renewable electricity generation" (Version 17).
Tool to calculate the emission factor for an electricity system" (Version 02.2.1)

A.5. Crediting period of project activity

Type - Fixed
Monitoring Period - 01
Start date of crediting period - 23/07/2013
Length of Crediting period - 10 Years
Duration of Crediting Period - 23/07/2013 – 22/07/2023
Current Monitoring Period - 23/07/2013 to 30/09/2016

A.6. Contact information of responsible persons/entities

Mr. Ramkrishna Patil
GM- Operations
EKI Energy Services Limited
Plot 48, Scheme 79, Part- 2, Vijay Nagar, Indore- 452010, Madhya Pradesh (India)
Mob: +91 9096562065
Ph: +91 731 4289086
Fax: +91 731 4289086
Email: ramkrishna.patil@enkingint.org

The above entity is not project participant as mentioned in Appendix 1.

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

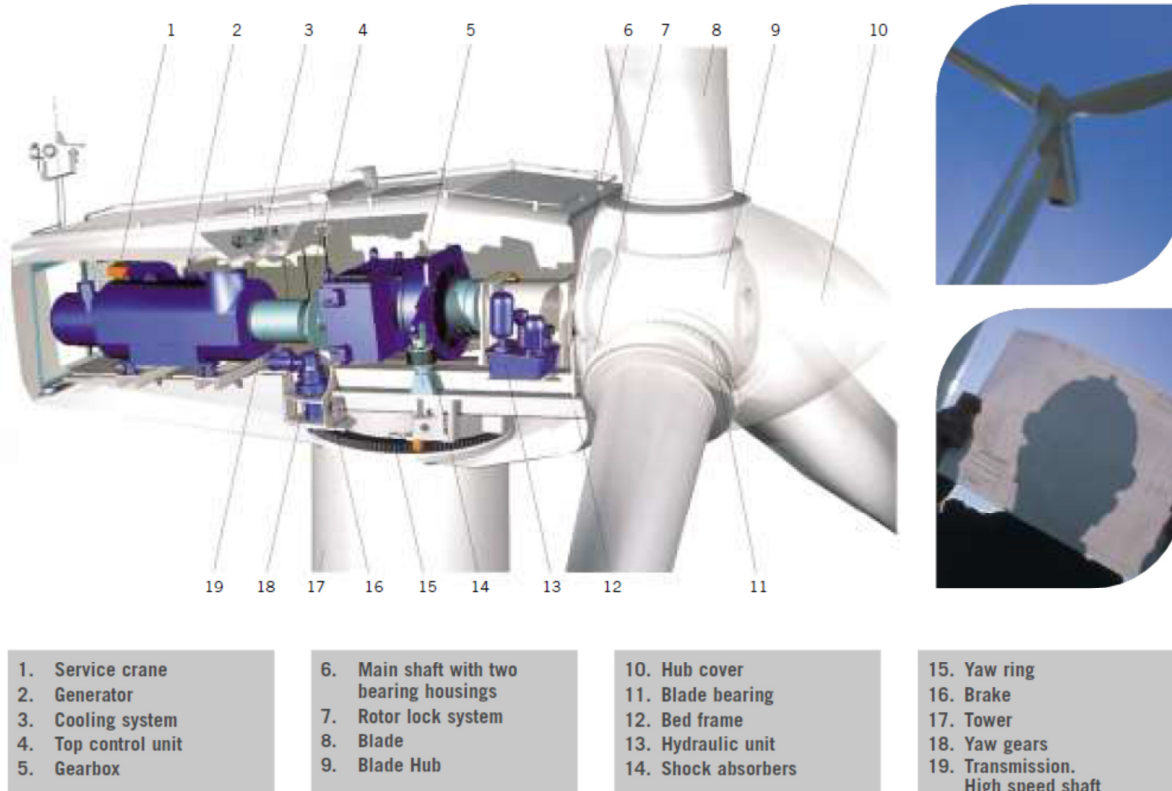
The project activity WTGs are already implemented and running satisfactorily. The proposed CDM project activity is a wind power project in the state of Maharashtra, comprising six Wind Turbine Generators (WTGs), with a cumulative capacity of 5.10 MW. The proposed project activity is installation of six units of 850 kW wind turbine generators. The commissioning details of each WTG is mentioned in section A.1 of MR.

The purpose of the proposed project is to generate electricity, using the kinetic energy of wind, thus resulting in zero emissions during electricity production. The power generated will be supplied to the state electricity board and will replace the equal amount of power which would have been generated by fossil fuel-dominated NEWNE grid.

The proposed project activity is using technically and commercially proven wind turbines from Gamesa Wind Turbines Pvt Ltd. The applied technology is considered to be one of the most environmentally friendly and safe technologies available as the operation of the wind turbine does not emit any GHGs or any other harmful gases unlike the operation of conventional power plants.

The proposed project shall use the kinetic energy in wind to drive the wind turbine blades which generates electricity.

The schematic diagram of WTG is mentioned below



There are no changes that have happened in project activity which may impact the applicability of the methodology.

B.2. Post-registration changes

B.2.1. Temporary deviations from registered monitoring plan, applied methodology or applied standardized baseline

Not Applicable

B.2.2. Corrections

Not Applicable

B.2.3. Changes to start date of crediting period

Not Applicable

B.2.4. Inclusion of a monitoring plan to the registered PDD that was not included at registration

Not Applicable

B.2.5. Permanent changes from registered monitoring plan, applied methodology or applied standardized baseline

Not Applicable

B.2.6. Changes to project design of registered project activity

Not Applicable

B.2.7. Types of changes specific to afforestation or reforestation project activity

Not Applicable

SECTION C. Description of monitoring system

The monitoring plan is developed in accordance with the modalities and procedures for small-scale CDM project activities as the proposed project activity is a grid-connected wind power project being implemented in the state of Maharashtra. The monitoring plan, which is implemented and taken care by the project proponent, describes the monitoring organization, parameters to be monitored, monitoring practices, quality assurance, quality control procedures, data storage and archiving

Monitoring Organisation

The Project is managed by a Project Manager, who is a full time General Manager, further to be assisted by a Manager (Operations), in-charge of all technical aspects. The Manager (Operations) who is responsible for the operational activity of the wind project is having under him one Asst. Manager.

The monitoring agenda is delegated to a competent person identified for the purpose. The identified person is the in charge of GHG monitoring activities and prepare necessary audit reports for review by the management.

The identified person in charge is assisted by a team of experienced personnel in disciplines such as mechanical and electrical with experience in plant operation, measurements and management. The primary responsibility of the team is to collect, measure, monitor, record and reports the information on various data items to the person in charge and the General Manager, in accordance with the applicable standards. Periodic calibration of various instruments used in the monitoring of the data and record keeping of the same also is the responsibility of the team.

The responsibility of storage and archiving of information in good condition also lies with the designated person in charge. The person in charge undertake periodic verifications and onsite inspections to ensure the quality of the data collected by the team.

Monitoring plan –Maharashtra

For the project activity in order to establish credible emission reduction, it has to record the actual electricity supplied by the project proponent through clean source of Energy i.e. Wind which would displace the equivalent units of electricity produced by Fossil fuel based power plants.

Metering:

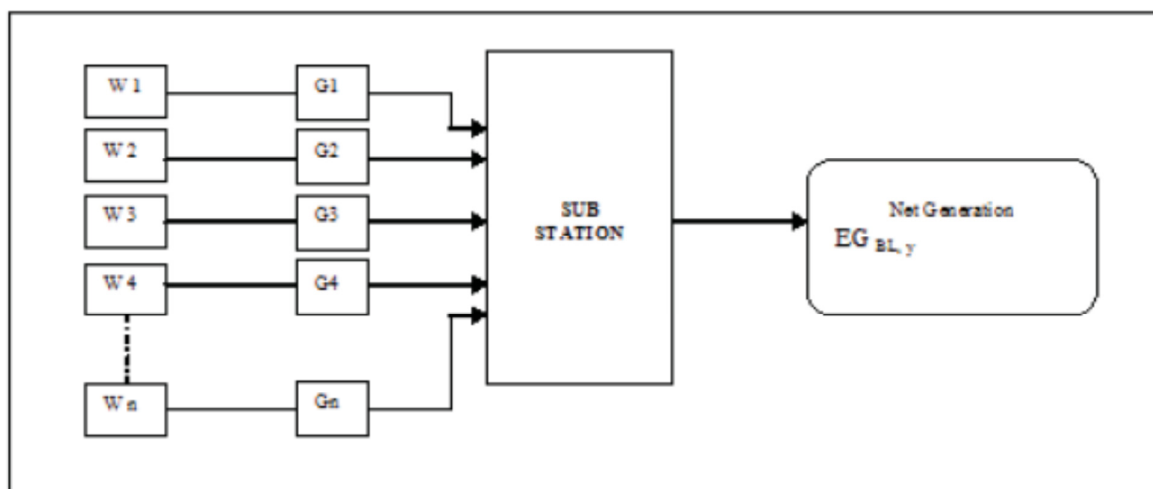
The monitoring of the generated electricity through Wind Turbine Generator is carried out by MSEDCL on monthly basis at the delivery point (Tri-vector meters installed at the substation) and also, Through Supervisory control and data acquisition system (SCADA) installed at Wind turbine generator controller on daily basis.

The value of the net electricity supplied to the grid by the project activity in year y i.e. $EG_{BL,y}$ is arrived at after subtracting the electricity imported from the grid by the project activity in year y , $EG_{IMP,PA,y}$, from electricity exported to the grid by the project activity in year y , $EG_{EXP,PA,y}$.

The calculation for $EG_{EXP,PA,y}$ & $EG_{IMP,PA,y}$ is done in the following manner:

In presence of the O&M representative and DISCOM representative, the monthly JMR is done at the substation at the main/check meter which displays the combined export/import data for n number of WTGs, which includes the WTGs of the project activity, connected to that meter.

The OM representative prepares the JMR report to be submitted to DISCOM. In that report, apart from the combined values of export/import of n WTGs read from the meter, the individual break up of export/import data for each WTG is also provided. The values of $EG_{EXP,PA,y}$ & $EG_{IMP,PA,y}$ are apportioned in the break up sheet prepared by the O&M contractor i.e. Gamesa. PP doesn't have any role or control on preparation of electricity break up sheets.



Flow diagram of monitoring arrangement

Note – The above flow diagram is just schematic representation for common metering arrangement and each feeder (e.g G1, G2 etc) involves multiple number of WTGs based on feeder load. For current monitoring period, GJN5, GJN7 of proposed project activity are connected to Feeder 01 whereas GJN47, GJ09N1, GJ41, GJ43N proposed project activity are connected to Feeder no.2. Thus feeder 1 and Feeder 2 meter details are provided in Monitoring report.

The proposed project activity requires evacuation facilities for sale to grid which is maintained by the state power utility (MSEDCL).

- The electricity generation measurements are required by the utility and the investors to assess electricity sales revenue
- The primary recording of the electricity fed to the state utility grid is carried out jointly at the incoming feeder of the state power utility (MSEDCL).
- The joint measurement is carried out once in a month in presence of both parties (the developer's representative and officials of the state power utility). Both parties sign the recorded reading.

The calibration details of meters relevant to project activity are as below

Location/ Type	Meter Sr Number	Make	Accuracy class	Calibration date	Next calibration due date	Delay in calibration period applied
Feeder 1 Main meter	13099021	Elster A1800	0.2s	01/10/2013, 12/06/2014, 07/08/2015, 12/08/2016	12/08/2017	From 23/07/2013 to Oct 2013, From June 2015 to August 2015, For August 2016
Feeder 1 Check meter	13132615	Elster A1800	0.2s			
Feeder 2 Main meter	13132626	Elster A1800	0.2s	01/10/2013, 17/07/2014, 07/08/2015, 12/08/2016	12/08/2017	From 23/07/2013 to Oct 2013, From June 2015 to August 2015, For August 2016
Feeder 2 Check meter	13132613	Elster A1800	0.2s			

Note –

1. PP have monthly data of export and import, hence complete month is considered for application of error factor due to delay in calibration.
2. Calibration certificates are not available with PP prior to 01/10/2013, hence delay in calibration period is considered from start date of monitoring period i.e from 23/01/2013 to complete Oct 2013 month conservatively.
3. There is delay in calibration from June 2015 to August 2015 for feeder 1 and July 2015 to August 2015 for feeder 2, however PP applied error factor for June 2015 to August 2015 for both feeder meters as a conservative approach.
4. Also there is delay in calibration for August 2016 for both feeder meters.
5. Please refer ER spreadsheet for the application of error factor due to delay in calibration. Since result of delayed calibration is within permissible limit, accuracy class has been applied as error factor conservatively.

Date Uncertainty:

In the event when verification period dates and billing cycle of WTGs in the Project Activity do not coincide:

Each WTG is equipped with the Integrated Electronic Tri-vector Meter which are connected to Central Monitoring System (CMS). The system continuously monitors the generation from each WTG. A daily consolidated report of the generation data is generated in the form of 'Daily Performance Report' and recorded in Electronic as well as Printed form. In the event when the individual verification period dates and billing cycle dates (or dated of B-Form) of the various WTGs in the project activity do not coincide, the following procedure would be adopted to estimate the Net Power Supplied to the Grid during the specified period/or days where there is a mismatch.

X	Sum of generation during partial days of the month recorded at panel meter (kWh)
Y	Total generation during the month recorded at panel meter (kWh/month)
Z = X / Y	Generation during partial days (kWh)
B	Energy export as per B-Form during the month (kWh/month)
(B*Z)	Partial days exported as per B-Form considered for emission reduction calculation (kWh)

For current monitoring period, the same approach followed for first month due to mismatch of billing cycle and monitoring period.

Data Archiving:

The metering equipments is maintained in accordance with electricity standards and have the capability of recording daily and monthly readings. Records of joint meter reading are maintained at site and a copy is kept with the PP. Necessary records of calibration are maintained by both MSEDCL and project proponents.

The Generation Data and other related documents will be kept for 2 years after the whole crediting period. All monitored data is stored / archived under safe custody of the project executor and controller for a period of crediting period (10 Years fixed crediting period) + 2 years.

QA/QC Procedure:

- The main & check meters shall be tested for accuracy, with a portable standard meter, by the MSEDCL'S testing division at the cost of seller. The MSEDCL shall carry out the calibration, periodical testing, sealing & maintenance of meters annually in the presence of authorized representative(s) of seller shall sign on the result thereof.
- The frequency of meter testing shall be done annual. All meters will be tested only at the metering point. The MSEDCL will provide a copy of the test reports to the seller.
- If during testing, both the main & check meters are found within the permissible limits of error i.e. 0.2%, the energy computation will be as per the main meter. If during test, any of the main meter is found to be within permissible limits of error but the corresponding check meter is beyond the permissible limit, energy computation will be as per the main meter. The check meter shall be calibrated immediately.

- If during the tests, the main meter is found to be beyond permissible limits of error, but the corresponding check meter is found to be within the permissible limits of error, then the energy computation for the month to-date & time of such test check shall be in accordance with check meter. The main meter shall be calibrated immediately & the energy for the period thereafter shall be as per the calibrated main meter.
- If during any of the monthly meter readings, the variation between the main meter & check meter is more than 0.2%, all the meters shall be retested & calibrated immediately by MSEDCL, at the seller's cost.
- The correction required as per result of testing will be applied to generation & consumption of energy for the period from last meter reading to the time of such test checks. Energy from the period there after shall be in accordance with calibrated main meter.
- The net electricity supplied to the grid can be cross checked with the invoices raised / sales receipts.

SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante or at renewal of crediting period

Data/parameter:	EF _{NEWNE, OM, y}
Unit	tCO ₂ /MWh
Description	Operating margin CO ₂ emission factor for the project electricity system in year y
Source of data	CEA's "Baseline Carbon Dioxide Emission Database Version 7.0 "
Value(s) applied)	0.9842
Choice of data or measurement methods and procedures	Calculated in line with "Tool to calculate the emission factor for an electricity system (Version 02.2.1)" using data from Central Electricity Authority of India's (CEA) "Baseline Carbon Dioxide Emission Database Version 7.0". Justified in section B.6.1 of registered PDD.
Purpose of data	Calculation of baseline emissions
Additional comments	The value is fixed ex-ante

Data/parameter:	EF _{NEWNE, BM, y}
Unit	tCO ₂ /MWh
Description	Build margin CO ₂ emission factor for the project electricity system in year y
Source of data	CEA's "Baseline Carbon Dioxide Emission Database Version 7.0 "
Value(s) applied)	0.8588
Choice of data or measurement methods and procedures	Calculated in line with "Tool to calculate the emission factor for an electricity system (Version 02.2.1)" using data from Central Electricity Authority of India's (CEA) "Baseline Carbon Dioxide Emission Database Version 7.0". Justified in section B.6.1 of registered PDD.
Purpose of data	Calculation of baseline emissions
Additional comments	The value is fixed ex-ante

Data/parameter:	EF _{NEWNE, CM, y}
Unit	tCO ₂ /MWh
Description	Combined margin CO ₂ emission factor for the project electricity system in year y
Source of data	CEA's "Baseline Carbon Dioxide Emission Database Version 7.0 "
Value(s) applied)	0.9528

Choice of data or measurement methods and procedures	Calculated in line with “Tool to calculate the emission factor for an electricity system (Version 02.2.1)” using data from Central Electricity Authority of India’s (CEA) “Baseline Carbon Dioxide Emission Database Version 7.0”. Justified in section B.6.1 of registered PDD.
Purpose of data	Calculation of baseline emissions
Additional comments	The value is fixed ex-ante

D.2. Data and parameters monitored

Data/parameter:	EG _{BL, y}
Unit	MWh
Description	Quantity of net electricity supplied to the grid by project activity in year y
Measured/calculated/default	To be calculated
Source of data	Monthly joint meter reading (JMR) at pooling substation.
Value(s) of monitored parameter	24,619.11 MWh
Monitoring equipment	<p>The net electricity supplied to the grid by the project activity is continuously monitored both in individual WTG control panel (in built) and at the energy meter (main and check meter) installed at the sub-station. The project activity WTGs involves two feeders to export electricity to grid. Section C of MR mentioned the meter details for each feeder.</p> <p>The meters remain under the custody of state utility. Since, the energy meter is connected to number of WTGs along with the project WTGs the net electricity exported to grid by the project WTGs are calculated based on the gross electricity exported and imported to/from the grid at substation where all WTGs (WTGs of project activity and WTGs of other than project activity) are connected.</p> <p>$EG_{BL,y} = EG_{EXP,PA,y} - EG_{IMP,PA,y}$</p> <p>Joint Meter Reading would be recorded at the end of every month, by the representative of the state electricity board and representative of O&M Contractor. The Joint Meter Reading taken at the substation is apportioned by O & M provider along with state utility for individual project participants. PP doesn't have any role or control on preparation of Joint meter readings for individuals. PP also receives a copy of export ($EG_{EXP,PA,y}$) and import ($EG_{IMP,PA,y}$) data for his WTGs from which the net export of electricity to grid is calculated on monthly basis ($EG_{BL,y} = EG_{EXP,PA,y} - EG_{IMP,PA,y}$). This value is directly used for emission reduction calculation and on the same monthly net generation data PP raises the invoice to MSEDCL.</p>
Measuring/reading/recording frequency:	Continuous monitoring, Hourly measurement and Monthly recording
Calculation method (if applicable):	$EG_{BL,y} = EG_{EXP,PA,y} - EG_{IMP,PA,y}$
QA/QC procedures:	<p>Accuracy class of metering equipment: 0.2 s</p> <p>Calibration frequency: Annual</p> <p>Responsible person for measurement – DISCOM shall be responsible for the calibration of the meters.</p> <p>Data Archiving : All data collected as part of monitoring would be archived electronically and kept for at least two years after the end of the last crediting period.</p> <p>The net electricity supplied to the grid can be cross checked with the invoices raised / sales receipts.</p>
Purpose of data:	Calculation of baseline emissions
Additional comments:	-

Data/parameter:	EG _{EXP,PA,y}
Unit	MWh
Description	Quantity of electricity exported to the grid by project activity in year y
Measured/calculated/default	Measured
Source of data	JMR report and Break up sheet provided by Gamesa to MSEDCL
Value(s) of monitored parameter	246,88.84
Monitoring equipment	<p>The value of EG_{EXP,PA,y} is apportioned by the O&M contractor (Gamesa) and provided to the DISCOM in the break up sheet along with the JMR report as explained in section B.7.3 registered PDD.</p> <p>For measuring the energy exported and imported by the project activity at the interconnection point, two set of main meter (part of interconnection facility) and check meter will be provided (Each feeder involves one set of main and check meters). The meters are owned by the state electricity board. The project activity WTGs involves two feeders to export electricity to grid. Section C of MR mentioned the meter details for each feeder.</p> <p>Apart from hourly meter reading, monthly joint meter readings at the interconnection point will be noted by the designated officials of the company and DISCOM. The joint meter readings will be recorded and signed by the authorized representative of both the parties.</p> <p>Calibration procedure – National Test House or equivalent – Third party testing Accuracy of the measurement - $\pm 0.2\%$ Responsible person for measurement – DISCOM shall be responsible for the calibration of the meters</p>
Measuring/reading/recording frequency:	Continuous monitoring, Hourly measurement and Monthly recording
Calculation method (if applicable):	Not applicable
QA/QC procedures:	<p>Accuracy class of metering equipment: 0.2 s Calibration frequency: Annual Data Archiving : All data collected as part of monitoring would be archived electronically and kept for at least two years after the end of the last crediting period.</p>
Purpose of data:	Calculation of baseline emissions
Additional comments:	-

Data/parameter:	EG _{IMP,PA,y}
Unit	MWh
Description	Quantity of electricity imported from the grid by project activity in year y
Measured/calculated/default	Measured
Source of data	JMR report and Break up sheet provided by Gamesa to MSEDCL
Value(s) of monitored parameter	69.73

Monitoring equipment	<p>The value of $EG_{IMP,PA,y}$ is apportioned by the O&M contractor (Gamesa) and provided to the DISCOM in the break up sheet along with the JMR report as explained in section B.7.3 of registered PDD.</p> <p>For measuring the energy exported and imported by the project activity at the interconnection point, two set of main meter (part of interconnection facility) and check meter will be provided (Each feeder involves one set of main and check meters). The meters are owned by the state electricity board. The project activity WTGs involves two feeders to export electricity to grid. Section C of MR mentioned the meter details for each feeder.</p> <p>Apart from hourly meter reading, monthly joint meter readings at the interconnection point will be noted by the designated officials of the company and DISCOM. The joint meter readings will be recorded and signed by the authorized representative of both the parties.</p> <p>Calibration procedure – National Test House or equivalent – Third party testing Accuracy of the measurement - $\pm 0.2\%$ Responsible person for measurement – DISCOM shall be responsible for the calibration of the meters</p>
Measuring/reading/recording frequency:	Continuous monitoring, Hourly measurement and Monthly recording
Calculation method (if applicable):	Not applicable
QA/QC procedures:	<p>Accuracy class of metering equipment: 0.2 s</p> <p>Calibration frequency: Annual</p> <p>Data Archiving : All data collected as part of monitoring would be archived electronically and kept for at least two years after the end of the last crediting period.</p>
Purpose of data:	Calculation of baseline emissions
Additional comments:	-

D.3. Implementation of sampling plan

Not Applicable

SECTION E. Calculation of emission reductions or GHG removals by sinks

E.1. Calculation of baseline emissions or baseline net GHG removals by sinks

The project activity reduces carbon dioxide through displacement of grid electricity generation with fossil fuel based power plants by renewable- wind energy. The emission reduction ER_y due to project activity during a given year y is calculated as the difference between baseline emissions (BE_y) and project emissions (PE_y) and leakage emissions (LE_y). However as per registered PDD, there are no any project and leakage emissions.

Baseline Emissions Factor and Baseline Emissions during the current monitoring period

Particulars	Value
Baseline Emissions Factor ($EF_{NEWNE,CM,y}$ in tCO_2/MWh)	0.9528
Net Electricity Supplied to the Grid by the Project ($EG_{BL,y}$ in MWh)	24,619.1
Baseline Emissions (BE_y tCO_2)	23,457

E.2. Calculation of project emissions or actual net GHG removals by sinks

As per methodology and registered PDD, it is zero

E.3. Calculation of leakage

As per methodology and registered PDD, it is zero

E.4. Summary of calculation of emission reductions or net GHG removals by sinks

Item	Baseline emissions or baseline net GHG removals by sinks (t CO ₂ e)	Project emissions or actual net GHG removals by sinks (t CO ₂ e)	Leakage (t CO ₂ e)	GHG emission reductions or net GHG removals by sinks (t CO ₂ e) achieved in the monitoring period		
				Up to 31/12/2012	From 01/01/2013	Total amount
Total	23,457	0	0	0	23,457	23,457

E.5. Comparison of actual emission reductions or net GHG removals by sinks with estimates in registered PDD

Item	Values estimated in ex ante calculation of registered PDD	Actual values achieved during this monitoring period
Emission reductions or GHG removals by sinks (t CO ₂ e)	27,195	23,457

E.6. Remarks on difference from estimated value in registered PDD

CER's generated are low as compared due to registered PDD because, in actual case the PLF is on lower side, due to which there is a decrease in the electricity generation. The actual ER is 13.75% lower than estimated values.

Appendix 1. Contact information of project participants and responsible persons/entities

Project participant and/or responsible person/ entity	<input checked="" type="checkbox"/> Project participant <input type="checkbox"/> Person/entity responsible for completing the CDM-MR-FORM
Organization name	Shyam Metalics & Energy Limited
Street/P.O. Box	82, Topsia Road, 7 Floor
Building	Trinity Tower
City	Kolkata
State/region	West Bengal
Postcode	700046
Country	India
Telephone	033 40113000
Fax	033 22852212
E-mail	lbc@shyamgroup.com
Website	
Contact person	Sanjay Kumar Agarwal
Title	Director
Salutation	Mr.
Last name	Agarwal
Middle name	Kumar
First name	Sanjay
Department	
Mobile	
Direct fax	
Direct tel.	
Personal e-mail	sanjay@shyamgroup.com

Project participant and/or responsible person/ entity	<input type="checkbox"/> Project participant <input checked="" type="checkbox"/> Person/entity responsible for completing the CDM-MR-FORM
Organization name	EKI Energy Services Limited
Street/P.O. Box	Plot 48, Scheme 79, Part- 2, Vijay Nagar
Building	Enking Embassy
City	Indore
State/region	Madhya Pradesh
Postcode	452010
Country	India
Telephone	+91 731 4289086
Fax	+91 731 4289086
E-mail	ramkrishna.patil@enkingint.org
Website	www.enkingint.org
Contact person	Ramkrishna Patil
Title	GM-Operations
Salutation	Mr.

Last name	Patil
Middle name	Vasantrao
First name	Ramkrishna
Department	CDM Services
Mobile	+91 9096562065
Direct fax	+91 731 4289086
Direct tel.	+91 731 4289086
Personal e-mail	ramkrishna.patil@enkingint.org

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
05.1	4 May 2015	Editorial revision to correct version numbering.
05.0	1 April 2015	Revisions to: <ul style="list-style-type: none"> • Include provisions related to delayed submission of a monitoring plan; • Provisions related to the Host Party; • Remove reference to programme of activities; • Overall editorial improvement.
04.0	25 June 2014	Revisions to: <ul style="list-style-type: none"> • Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0)); • Include provisions related to standardized baselines; • Add contact information on a responsible person(s)/ entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1; • Change the reference number from <i>F-CDM-MR</i> to <i>CDM-MR-FORM</i>; • Editorial improvement.
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 (EB70, 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).
01	28 May 2010	EB 54, Annex 34. Initial adoption.
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