

MONITORING REPORT FORM (CDM-MR) *
Version 01 - in effect as of: 28/09/2010

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* as contained within the document entitled "Guidelines for completing the monitoring report form (CDM-MR)" (EB 54 meeting report, annex 34).

MONITORING REPORT

Version Number: 1.0.

Date 06/01/2011

Title: 13.25 MW Wind Power Generation by RMTL, in Kutch, Gujarat

Reference number: 2247.

Monitoring Period : 1st Monitoring Report (from 25/03/2009 and last days 31/10/2010.)

SECTION A. General description of the project activity

A.1. Brief description of the project activity: >>

>>

- Purpose of the project activity and the measures taken to reduce greenhouse gas emissions:*
The purpose of the project activity is to generate clean and green energy. The project proponent has installed wind turbines having a total capacity of 13.25 MW. Eight wind turbines of 1.5MW each and one wind turbine of 1.25 MW have been installed in two sites- Suthri and Vanku, in Kutch region of Gujarat state in India.
- Brief description of the installed technology and equipments:*
The Wind Turbine Generators (WTGs) have been supplied by Suzlon. The following turbines have been installed.

WTG No.	WTG ID	Capacity (MW)
SEL/1250/05-06/0139	V12	1.25
SEL/1500/06-07/0361	M81	1.5
SEL/1500/06-07/0360	M80	1.5
SEL/1500/06-07/0383	M64	1.5
SEL/1500/06-07/0384	M82	1.5
SEL/1500/06-07/0359	M123	1.5
SEL/1500/06-07/0358	M98	1.5
SEL/1500/06-07/0382	M143	1.5
SEL/1500/06-07/0362	M147	1.5
	Total	13.25

For technical specification of the turbines please refer section A.4.

- Relevant dates for the project activity (e.g. construction, commissioning, continued operation periods, etc.).*

WTG	Date of Commissioning
V12	18/04/2006
M81	21/03/2007
M80	22/03/2007
M64	22/03/2007
M82	22/03/2007
M123	29/03/2007
M98	30/03/2007
M143	31/03/2007
M147	30/06/2007

The WTGs have been in operation since commissioning.

- Total emission reductions achieved in this monitoring period.*

Total emission reductions achieved in this monitoring period is 34280 tCO₂

A.2. Project Participants

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Private project participants: Ratnamani Metals and Tubes Ltd (RMTL)

Name of Party involved: Government of India (Host Party)

A.3. Location of the project activity:

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Complete information of the location of the project activity:

Village: Arikhana, Kamand, Suthri

District: Kutch

State: Gujarat

Country: India

and GPS coordinates. :

WTG Number	WTG ID.	Capacity (MW)	Village Location	Latitude N	Longitude E
SEL/1250/05-06/0139	V12	1.25	Vanku	22 51	68 32
SEL/1500/06-07/0361	M81	1.5	Kamand	23 03	68 52
SEL/1500/06-07/0360	M80	1.5	Arikhana	23 03	68 52
SEL/1500/06-07/0383	M64	1.5	Suthri	23 02	68 52
SEL/1500/06-07/0384	M82	1.5	Suthri-old	23 02	68 52
SEL/1500/06-07/0359	M123	1.5	Arikhana	23 00	68 55
SEL/1500/06-07/0358	M98	1.5	Suthri	23 03	68 52
SEL/1500/06-07/0382	M143	1.5	Suthri-old	23 02	68 53
SEL/1500/06-07/0362	M147	1.5	Suthri	23 02	68 54
Total		13.25			

A.4. Technical description of the project

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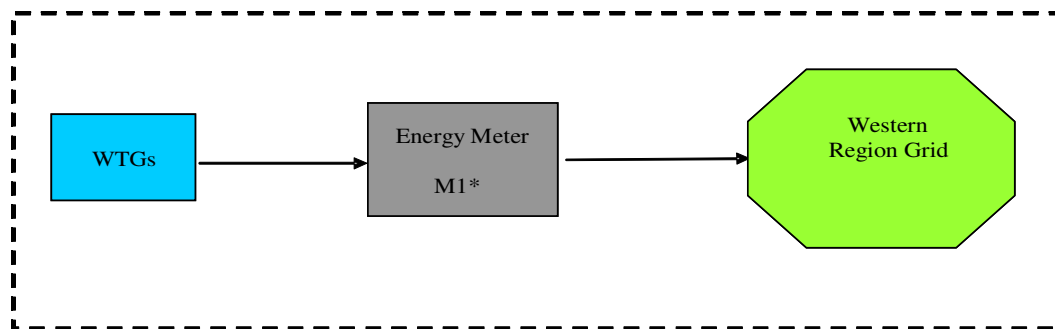
Description of the technology applied in the project activity and detailed technical process, including diagrams.

Technical Specifications of the WTGs.

Wind Turbine Generator Type	1.5 MW
Make	Suzlon
Rotor	
Rotor Diameter	82.0 m
Cut-in wind speed	4m/s
Rated wind speed	14m/s
Rotor swept area	5281 m ²
Rotational Speed	16.30 rpm
Rotor material	GRP
Regulation	Pitch
Gear Box	
Type	3 Stage gear box, 1 planetary & 2 helical

Manufacturer	Winergy
Nominal load	1650 kW
Type of cooling	Oil cooling system
Gear ratio	95.09
Generator	
Type	Asynchronous generator 4 pole
Rotational Speed	1511 rpm
Rated output	1500 kW
Operational Voltage	690 V
Frequency	50 Hz
Insulation class	Class “H”
Protection	IP 54
Cooling system	Air cooled
Safety system	
Aerodynamic brake	3 times Independent systems pitch regulation
Mechanical brake	Spring powered disc brakes, hydraulically released, fail safe
Control unit	Microprocessor controlled, indicating actual operating conditions, UPS back up system
Yaw Drive System	4 active electrical yaw motors
Yaw bearing	Polyamide slide bearing

Wind Turbine Generator Type	1.25 MW
Make	Suzlon, S.64
Rotor	
Rotor Diameter	64 m
Cut-in wind speed	3 m/s
Rated wind speed	14 m/s
Rotor blades	3 no.
Rotor swept area	3217 m ²
Rotational Speed	13.9 rpm
Rotor material	GRP
Regulation	Pitch regulated
Gear Box	
Type	3 Stage gear box, 1 planetary & 2 helical
Manufacturer	Winergy
Nominal load	1390 kW
Type of cooling	Oil cooling system
Gear ratio	74.917:1
Generator	
Type	Asynchronous generator 4 pole
Rotational Speed	1006/ 1506 rpm
Rated output	250/1250 kW
Rated Voltage	690 V
Frequency	50 Hz
Insulation class	Class “H”
Protection	IP 56
Cooling system	Air cooled
Safety system	
Aerodynamic brake	3 Independent systems with blade pitch
Mechanical brake	Spring powered disc brakes, hydraulically released, fail safe
Control unit	Microprocessor controlled, indicating actual operating conditions, UPS back up system
Yaw Drive System	4 active electrical yaw motors
Yaw bearing	Polyamide slide bearing



* M1 is explained in section C of this report.

A.5. Title, reference and version of the baseline and monitoring methodology applied to the project activity:

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Include the complete reference of the methodology applied and tools whenever is applicable.

As per the registered PDD the following reference documents have been referred to:

Methodology: AMS ID ‘Grid connected renewable electricity generation’ Scope 1

Version 13, EB 36

Methodology: ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”

Version 07, Sectoral Scope: 01, EB 36

“Tool to calculate the emission factor for an electricity system”

Version 01, EB 35

A.6. Registration date of the project activity:

>>

25/03/2009

A.7. Crediting period of the project activity and related information (start date and choice of crediting period):

>> *When applicable, the description shall also include changes to the start date of the crediting period post-registration that have been accepted by the Board*

Fixed crediting period was chosen at the time of registration

Start date of the crediting period: 25/03/2009.

There is no change in the start date of crediting period from the registered PDD.

Crediting period: 10 years from start date

A.8. Name of responsible person(s)/entity(ies):

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Please provide contact information of the person(s)/entity(ies) responsible for completing the monitoring report form (CDM-MR).

Mr. Vimal Katta

Ratnamani Metals and Tubes Ltd

17, Rajmugat Society, Naranpura Char Rasta

SECTION B. Implementation of the project activity

B.1. Implementation status of the project activity

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This section should include a description of the implementation and operational status of the project as of this monitoring period in accordance with the latest version of the CDM Validation and Verification Manual (CDM-VVM)¹. The description should include inter alia:

- 1. The starting date of operation of the project activity. For project activities that consist of more than one site, the report shall clearly describe the status of implementation and starting date of operation for each site. For CDM project activities with phased implementation, the report shall indicate the progress of the proposed CDM project activity achieved in each phase. :*

Start date of operation of the project activity is the commissioning dates of the individual WTGs of this project (refer section A.1. for Commissioning dates.)

- 2. The information regarding the actual operation of the project activity during this monitoring period, including information on special events, for example overhaul times, downtimes of equipment, exchange of equipment, etc.*

The project has been in operation since commissioning.

Breakdown details:

A brief account of major breakdown details is given below.

WTG	Breakdown Details
M64	The WTG suffered from blade problems from 08/08/2009 to 20/11/ 2009, after which optimization checks and other checks were performed between 21/11/2009 to 11/12/2009.
M98	WTG faced transformer problems from 12/08/2010 to 15 /09/2010 and had low electrical frequency from 15/09/ 2010 to 25/10/2010.
M123	Machine availability was severely affected by blade problems from 10/10/2009 to 20/11/2009, after which, optimization checks and other checks were performed between 21/11/2009 to 22/11/ 2009.
M147	Machine availability was affected by a problem in the manual soft stop from 30/07/2009 to 06/08/2009 and then because of blade problems from 07/08/2009 to 14/11/ 2009, checks were performed from 15/11/2009 to 16/11/ 2009. The machine underwent preventive checks from 16/04/ 2010 to 18/04/2010 and then faced gear box and related problems from 19/04/ 2010 to 17/05/2010.

¹ <http://cdm.unfccc.int/Reference/Manuals/index.html>

3. *A brief description of: (i) events or situations that occurred during the monitoring period, which may impact the applicability of the methodology, and (ii) how the issues resulting from these events or situations are being addressed.*

Events that may impact the applicability of the methodology have not occurred during this monitoring period.

B.2. Revision of the monitoring plan

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Please indicate whether the monitoring plan has been revised. Include the date of approval, if revised.

There is no revision in monitoring plan for this project activity.

B.3. Request for deviation applied to this monitoring period

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Please indicate any deviation applied to this monitoring period. Include the reference number, if any deviation applied.

There is no request for deviation from this project activity for the current monitoring period.

B.4. Notification or request of approval of changes
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Please indicate any notification or request of approval of changes from the project activity as described in the registered CDM-PDD. Include the date of approval, if applicable.

There are no changes from the registered CDM PDD in this project activity.

SECTION C. Description of the monitoring system
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Please provide a description of the monitoring system. This section may include data collection procedures (information flow including data generation, aggregation, recording, calculation and reporting), organizational structure, roles and responsibilities of personnel, and emergency procedures for the monitoring system.

This shall include line diagrams showing all relevant monitoring points.

Monitoring plan:

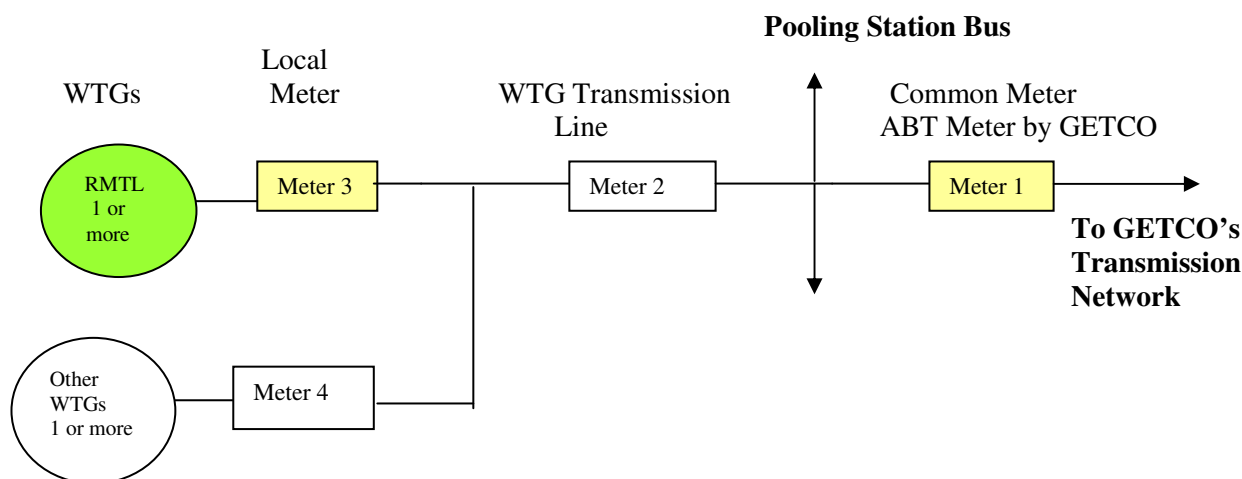
The project proponents have proposed a detailed procedure to ensure proper monitoring for the purpose of CDM activity.

The methodology requires monitoring of the electricity generation from the project activity. Analysis of daily power generation reports, performance report and monthly meter reading is handled by project proponent on a regular basis. The metering system includes a main meter and a back up meter, sealed in the presence of the representatives of the power producer and GETCO. The State Electricity Board personnel take readings of power generation every month; this data is used for the billing purposes.

The meter reading taken jointly at the appointed date and time is signed by the representatives of the GUVNL/ GETCO and the O&M service provider every month. The backup meter will be used in the period the main metering system is not in service. The project proponent ensures that the meters are repaired, re-calibrated or replaced immediately in case they are found to be outside the acceptable limits of accuracy or not functioning properly. The meters are calibrated at least once in three years as per the registered PDD.

The proponent keeps complete and accurate records and all other data required for the purpose of proper administration and operation of the windmills. The proponent also maintains an accurate and up-to-date operating log at the wind mill sites. The data will be kept for at least 2 years after the end of the crediting period or the last issuance of CERs for the project activity, whichever occurs later.

Metering arrangement for Wind Farm



This metering arrangement is followed in all the villages.

SECTION D. Data and parameters

This section shall include parameters used to calculate baseline, project, and leakage emissions as well as other relevant parameters required by the approved methodology and the monitoring plan; and specific information on how data and parameters have been monitored during the monitoring period. Data that is determined only once for the crediting period but are used after registration of the project activity should be included here under section D.1.

Provide for each parameter the following information, using the tables provided below:

- Value of monitored parameter in the period for the purpose of calculating emission reductions. To report multiple values, a table may be used and included in this monitoring report or include references to spreadsheet. For default value (such as an IPCC value), where it is ex-post confirmed, the most recent value shall be applied.*
- Description of the equipment used to monitor each parameter, including details on accuracy class, and calibration information (frequency, date of calibration and validity), if applicable as per monitoring plan.*
- Measuring and recording method: how the parameters are measured/calculated, specifying the measurement and recording frequency.*
- Source of data: logbooks, daily records, surveys, etc.*
- Where relevant, the calculation method of the parameter.*
- The QA/QC procedures applied (if applicable per monitoring plan).*
- Include information about appropriate emission factors, IPCC default values and any other reference values that have been used in the calculation of emission reductions.*

D.1. Data and parameters determined at registration and not monitored during the monitoring period, including default values and factors	
<i>(Copy this table for each data and parameter. To report multiple values, a table may be used)</i>	
Data / Parameter:	EFgrid, CM, y
Data unit:	tCO ₂ / MWh
Description:	Combined Margin for WR grid
Source of data used:	Central Electricity Authority ,India
Value(s) :	0.898

Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Central Electricity Authority (India) is a government body and data published is in line with the methodological requirement. http://www.cea.nic.in/planning/c%20and%20e/user_guide_ver3.pdf
Additional comment:	Fixed ex ante in the registered PDD

Data / Parameter:	EFgrid, OM,y
Data unit:	tCO ₂ / MWh
Description:	Operating Margin for WR grid
Source of data used:	Central Electricity Authority ,India
Value(s) :	1.00
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Central Electricity Authority (India) is a government body and data published is in line with the methodological requirement. http://www.cea.nic.in/planning/c%20and%20e/user_guide_ver3.pdf
Additional comment:	Fixed ex ante in the registered PDD

Data / Parameter:	EFgrid, BM,y
Data unit:	tCO ₂ / MWh
Description:	Build Margin for WR grid
Source of data used:	Central Electricity Authority ,India
Value(s) :	0.59
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Central Electricity Authority (India) is a government body and data published is in line with the methodological requirement. http://www.cea.nic.in/planning/c%20and%20e/user_guide_ver3.pdf
Additional comment:	Fixed ex ante in the registered PDD

D.2. Data and parameters monitored	
<i>(Copy this table for each data and parameter. To report multiple values, a table may be used)</i>	
Data / Parameter:	GEN
Data unit:	kWh
Description:	Net electricity supplied by WTGs in the project activity
Measured /Calculated /Default:	Measured
Source of data:	Monthly certificates issued by GEDA/ Electricity meter installed by State Electricity Board at uploading station connected to WTGs
Value(s) of monitored parameter:	38173946
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emissions calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Please refer annexure 1 for meter details:
Measuring/ Reading/ Recording frequency:	Meter readings for measuring this parameter are taken monthly.
Calculation method (if applicable):	
QA/QC procedures applied:	Meters were calibrated as per the monitoring plan.. refer annexure 1

SECTION E. Emission reductions calculation

E.1. Baseline emissions calculation

>>

This section shall include all formulae used and description to calculate the baseline emissions applying actual values. A table may be used and included in this monitoring report or include references to spreadsheet.

The Baseline calculations with the formula used is available in the accompanying excel sheet.

At Suthri Site

Month	Net Power supplied from 10.5 MW	Net Power supplied from 1.5 MW	Net Power supplied from suthri site
Dates	kWh	kWh	kWh
25/03/09 to 31/03/09*	*	*	286769*
31/03/09 to 24/04/09	1215999	177367	1393366
25/04/09 to 24/05/09	1939147	274582	2213729
25/05/09 to 24/06/09	3602362	501204	4103566
25/06/09 to 032/07/09	403076	70091	473167
03/07/09 to 24/07/09	1991596	274482	2266078
25/07/09 to 24/08/09	3722262	120762	3843024
25/08/09 to 30/09/09	1586953	0	1586953
01/10/09 to 24/10/09	570201	0	570201
25/10/09 to 24/11/09	807208	51082	858290
25/11/09 to 24/12/09	1734331	284153	2018484
25/12/09 to 24/01/10	1189905	214713	1404618
25/01/10 to 24/02/10	1211212	197139	1408351
24/02/10 to 31/03/10	1300346	207340	1507686
01/04/10 to 24/04/10	1204544	103427	1307971
25/04/10 to 31/05/10	3345362	290188	3635550
01/06/10 to 30/06/10	2120442	369533	2489975
01/07/10 to 31/07/10	2083273	34138	2117411
01/08/10 to 31/08/10	1119402	229669	1349071
01/09/10 to 30/09/10	294559	89591	384150
01/10/10 to 31/10/10	427866	68907	496773
Total	31870046	3558368	35715183

* Share certificates are available for the period 25/02/2009 to 30/03/2009 but not specifically for the period 25/03/2009 to 30/03/2009. Daily generation logs of this period (from 25/03/2009 to 30/03/2009) are used to calculate the electricity supplied in the period. The calculation method is given in the accompanying calculation worksheet..

At Vanku Site:

Month	Net Power supplied	Correction applied (0.2 %). **	Net supply from Vanku after correction.
Dates	kWh	kWh	tCO ₂
25/03/09 to 30/03/09*	18774*	0	16274*
31/03/09 to 24/04/09	89858	0	89858
25/04/09 to 24/05/09	147391	0	147391
25/05/09 to 24/06/09	261383	0	261383
25/06/09 to 24/07/09	129978	0	129978
25/07/09 to 24/08/09	254548	0	254548

25/08/09 to 30/09/09	114686	229.372	114457
01/10/09 to 24/10/09	48907	97.814	48809
25/10/09 to 24/11/09	91834	183.668	91650
25/11/09 to 24/12/09	104695	209.39	104486
25/12/09 to 24/01/10	84951	0	84951
25/01/10 to 24/02/10	89929	0	89929
25/02/10 to 31/03/10	104517	0	104517
01/04/10 to 24/04/10	94223	0	94223
25/04/10 to 31/05/10	254859	0	254859
01/06/10 to 30/06/10	178217	0	178217
01/07/10 to 31/07/10	185743	0	185743
01/08/10 to 31/08/10	115544	0	115544
01/09/10 to 30/09/10	49775	0	49775
01/10/10 to 31/10/10	42171	0	42171
Total	2461983	720.244	2458763

*Share certificates are available for the period 25/02/2009 to 30/03/2009 but not specifically for the period 25/03/2009 to 30/03/2009. Daily generation logs of this period (from 25/03/2009 to 30/03/2009) are used to calculate the electricity supplied in the period. The calculation method is given in the accompanying calculation worksheet.

**Since, meter calibration was delayed by 3 months from the regime specified in the validated PDD at the Vanku site, a correction, equivalent to the maximum permissible error (0.2%) for the meter is considered, and an equivalent quantity of electricity is reduced from the estimated net electricity supplied in those four months from the vanku site for a conservative estimate. This is as per clause 4 of the guideline for assessing compliance with the calibration frequency requirements, version 1.², since the error was found to be within error limits in the calibration performed on 18/12/2009.

Total Baseline Emissions (BE)

Month	Period	Net power supplied.
	Dates	kWh
Mar-09	25/03/09 to 30/03/09	303043
Apr-09	31/03/09 to 24/04/09	1483224
May-09	25/04/09 to 24/05/09	2361120
Jun-09	25/05/09 to 24/06/09	4364949
Jul-09	25/06/09 to 24/07/09	2869223
Aug-09	25/07/09 to 24/08/09	4097572
Sep-09	25/08/09 to 30/09/09	1701410
Oct-09	01/10/09 to 24/10/09	619010
Nov-09	25/10/09 to 24/11/09	949940
Dec-09	25/11/09 to 24/12/09	2122970
Jan-10	25/12/09 to 24/01/10	1489569
Feb-10	25/01/10 to 24/02/10	1498280
Mar-10	25/02/10 to 31/03/10	1612203
Apr-10	01/04/10 to 24/04/10	1402194
May-10	25/04/10 to 31/05/10	3890409
Jun-10	01/06/10 to 30/06/10	2668192
Jul-10	01/07/10 to 31/07/10	2303154
Aug-10	01/08/10 to 31/08/10	1464615
Sep-10	01/09/10 to 30/09/10	433925
Oct-10	01/10/10 to 31/10/10	538944
Total	Total	38173946

² Guidelines for assessing compliance with the calibration frequency requirements, version 1. Is available on http://cdm.unfccc.int/Reference/Guidclarif/iss/iss_guid05.pdf as on 14th December 2010.

Net power supplied in the period: **38173946 kWh**
Emission factor: **0.898 tCO₂/MWh**
Total BE for this monitoring period: **34280 tCO₂**

E.2. Project emissions calculation

>>

This section shall include all formulae used and description to calculate the project emissions applying actual values. A table may be used and included in this monitoring report or include references to spreadsheet

Total Project Emissions: PE=0.

E.3. Leakage calculation

>>

This section shall include all formulae used and description to calculate the leakage applying actual values. A table may be used or include a reference to the spreadsheet to report multiple values.

Total Leakage :LE=0.

E.4. Emission reductions calculation / table

>>

This section shall include the formulae used to calculate the emission reductions and the total of the emission reductions achieved during the monitoring period.

Baseline Emission.	Total Project Emissions	Total Leakage	Total Emission reductions. (ER= BE-PE-LE)
tCO ₂	tCO ₂	tCO ₂	tCO ₂
34280	0	0	34280

Total CERs generated in this monitoring period: **34280 tCO₂**

E.5. Comparison of actual emission reductions with estimates in the CDM-PDD

>>

This section shall include a comparison of actual values of the emission reductions achieved during the monitoring period with the estimations in the registered CDM-PDD.

Item	Values applied in ex-ante calculation of the registered CDM-PDD	Actual values reached during the monitoring period
Emission reductions (tCO₂e)	37936.67 tCO ₂ *	34280tCO ₂ *

*for the entire monitoring period under consideration

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

>>

*Please provide an explanation of the cause of any **increase** in the actual emission reductions achieved during the current monitoring period (e.g. higher water availability, higher load plant factor, etc), including all information (i.e. data and/or parameters) that is different from that stated in the registered CDM-PDD.*

The emissions reductions achieved in this period are lower than those predicted ex ante in the PDD, there is no increase in the actual emission reductions achieved during the current monitoring period. No Data/Parameter is different from the registered CDM PDD.

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History of the document

Version	Date	Nature of revision
01	EB 54, Annex 34 28 May 2010	Initial adoption.
Decision Class: Regulatory Document Type: Guideline, Form Business Function: Issuance		

Annexure 1

Meter calibration details

Site	Location	Meter Serial no	Type	Accuracy class	Calibration Frequency	Date of Calibration	Calibration result	Valid till
Vanku	TR1	GJB00591	Secure energy meters	0.2s	once in 3 years	20/09/2006	Within limits of error	20/09/2009
Vanku	TR1	GJB00591	Secure energy meters	0.2s	once in 3 years	18/12/2009	Within limits of error	18/12/2012
Vanku	TR2	GJB00592	Secure energy meters	0.2s	once in 3 years	20/09/2006	Within limits of error	20/09/2009
Vanku	TR2	GJB00592	Secure energy meters	0.2s	once in 3 years	18/12/2009	Within limits of error	18/12/2012
Suthri	Line 1	MSE64370	Secure energy meters	0.2s	once in 3 years	10/07/2006	Within limits of error	10/07/2009
Suthri	Line 1	MSE64370	Secure energy meters	0.2s	once in 3 years	18/11/2008	Within limits of error	18/11/2011
Suthri	Line2	GJB00669	Secure energy meters	0.2s	once in 3 years	29/04/2006	Within limits of error	29/04/2009
Suthri	Line2	GJB00669	Secure energy meters	0.2s	once in 3 years	18/11/2008	Within limits of error	18/11/2011
Suthri	TR1	GJB00671	Secure energy meters	0.2s	once in 3 years	19/06/2009	Within limits of error	19/06/2012
Suthri	TR2	GJB00673	Secure energy meters	0.2s	once in 3 years	19/06/2009	Within limits of error	19/06/2012
Suthri	TR3	GJB00674	Secure energy meters	0.2s	once in 3 years	19/06/2009	Within limits of error	19/06/2012

The meter calibration is as per the registered PDD and UNFCCC guidelines.