



**MONITORING REPORT FORM (F-CDM-MR)**  
**Version 02.0**

**MONITORING REPORT**

<b>Title of the project activity</b>	Chambal Power Limited's (CPL) proposed 7.5 MW biomass based power project at Rangpur, Kota District, Rajasthan, India
<b>Reference number of the project activity</b>	UN0347
<b>Version number of the monitoring report</b>	01
<b>Completion date of the monitoring report</b>	26/07/2012
<b>Registration date of the project activity</b>	08/05/2006
<b>Monitoring period number and duration of this monitoring period</b>	Monitoring Period Number :- 09 Duration :-01/11/2011 to 30/06/2012 (Both days included)
<b>Project participant(s)</b>	<ul style="list-style-type: none"> <li>• Suryachambal Power Limited, India</li> <li>• EcoSecurities Capital Ltd., United Kingdom of Great Britain and Northern Ireland</li> <li>• EcoSecurities Capital Ltd., Switzerland</li> <li>• Effinergy Trading Ltd., Switzerland</li> <li>• Bunge Emissions Fund Limited, Switzerland</li> </ul>
<b>Host Party(ies)</b>	India
<b>Sectoral scope(s) and applied methodology(ies)</b>	Sectoral scope(s):-Energy industries (renewable - / non-renewable sources) Applied Methodology:- <a href="#">AMS-I.D. ver. 7</a> - Renewable electricity generation for a grid
<b>Estimated amount of GHG emission reductions or net anthropogenic GHG removals by sinks for this monitoring period in the registered PDD</b>	33,551
<b>Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved in this monitoring period</b>	17,848

**SECTION A. Description of project activity****A.1. Purpose and general description of project activity**

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Suryachambal Power Limited has established a biomass based grid connected power plant at village Rangpur, Kota district, Rajasthan, India. The main purpose of the project is to generate and export eco friendly biomass generated power to the Rajasthan Rajya Vidyut Prasaran Nigam Limited (RRVPNL), which is a Transmission company of the Rajasthan State Electricity Board (RSEB) and a part of the Integrated Northern Eastern Western North-Eastern Grid (NEWNE) formerly known as Northern Regional Electricity Grid. CPL has implemented a modern 7.5 MW Power Project based on mustard husk and stalks, corn cobs, bagasse and other available agricultural wastes as fuel. The project exports surplus power to RRVPNL after meeting the in-house auxiliary demand.

The Company was incorporate on 27<sup>th</sup> May 1997, and registered for CDM on 08<sup>th</sup> May 2006, the project was commissioned and started from 31<sup>st</sup> March 2006 and since it is in continuous operation. The power plant is based on Rankine Cycle. The steam generator is designed to operate on any biomass like mustard and soya husk and stalks, corncobs and bagasse to ensure consistent plant efficiency even in times of biomass efficiency, if any. There will be one 35 TPH, 67 kg/cm<sup>2</sup>, 450 +/- 5°C high pressure boiler and a single bleed cum condensing steam turbine generator (STG) of 7.5 MW capacity.

The total actual emission reductions achieved in this monitoring period (01/11/2011 to 30/06/2012) are 17,848 tCO<sub>2</sub>e.

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

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The project is located at Rangpur village area of Kota District, Rajasthan State, India, which is about 8 km from Kota railway station towards north direction and about 1 km south of village Rangpur. The latitude & longitude of the site are 25°16'36'' North & 75°56'22'' East. The location map is as follows:



### A.3. Parties and project participant(s)

<b>Party involved ((host) indicates a host Party)</b>	<b>Private and/or public entity(ies) project participants (as applicable)</b>	<b>Indicate if the Party involved wishes to be considered as project participant (Yes/No)</b>
India (host)	Suryachambal Power Limited	No
United Kingdom of Great Britain and Northern Ireland	EcoSecurities Capital Ltd.	No
Switzerland	EcoSecurities Capital Ltd. Effinergy Trading Ltd. Bunge Emissions Fund Limited	No No No

**A.4. Reference of applied methodology**

&gt;&gt;

The approved baseline and monitoring methodology applied to the project activity is: “[AMS-I.D. ver. 7](#) - Renewable electricity generation for a grid valid from 27/11/2005.

*Tool to calculate emission factor for an electricity system version 2.2.1 ( EB63 Annex 19)*

**A.5. Crediting period of project activity**

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Type: - Renewable Crediting

Start Date of Crediting period: - 01/03/2006

Length of Crediting period corresponding to this monitoring period: - 7 Years

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

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The Construction Activity of this project was started in 2004 and subsequently the Plant was commissioned on 31<sup>st</sup> March 2006 when the power generated by the unit was fed to the RVPNL Grid. This power plant is under operation 31<sup>st</sup> March 2006 onwards round the year. Relevant dates for the project activity are mentioned as below:

Project Commissioned: 31/03/2006

CDM Registration date: 08/05/2006

1<sup>st</sup> Monitoring Period: 01/03/2006 to 30/06/2007

2<sup>nd</sup> Monitoring Period: 01/07/2007 to 31/12/2007

3<sup>rd</sup> Monitoring Period: 01/01/2008 to 31/08/2008

4<sup>th</sup> Monitoring Period: 01/09/2008 to 31/03/2009

5<sup>th</sup> Monitoring Period: 01/04/2009 to 31/01/2010

6<sup>th</sup> Monitoring Period: 01/02/2010 to 30/09/2010

7<sup>th</sup> Monitoring Period: 01/10/2010 to 31/03/2011

8<sup>th</sup> Monitoring Period: 01/04/2011 to 31/10/2011

9<sup>th</sup> Monitoring Period: 01/11/2011 to 30/06/2012 (Current One)

**B.2. Post registration changes****B.2.1. Temporary deviations from registered monitoring plan or applied methodology**

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Not Applied

**B.2.2. Corrections**

&gt;&gt;

Not Applied

**B.2.3. Permanent changes from registered monitoring plan or applied methodology**

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Monitoring Plan is revised during second verification of the project activity and same has been approved by CDM Executive Board on 10/08/2008. The registered monitoring plan was revised to include grid emission factor as ex-post monitoring parameter in monitoring plan.

**B.2.4. Changes to project design of registered project activity**

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Not Applied

**B.2.5. Changes to start date of crediting period**

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Not Applied

**B.2.6. Types of changes specific to afforestation or reforestation project activity**

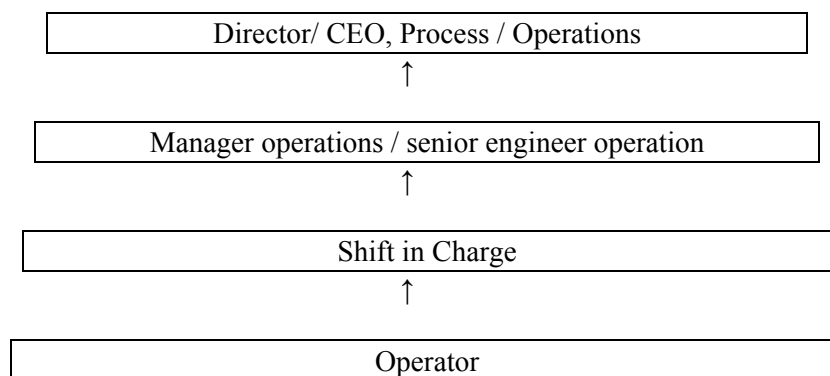
&gt;&gt;

Not Applied

**SECTION C. Description of monitoring system**

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The Following structure of monitoring and reporting-

**Role and responsibility:-****1) Director/ CEO, Process / Operations:-**

Decision on the contents of the training program  
 Ensuring implementation of monitoring procedures  
 Internal audit and project conformance review

**2) Manager operations / senior engineer operation:-**

Organizing and conduct training program  
 Implementing all monitoring control procedure  
 Association with Manager QA toward maintenance and calibration of monitoring equipment  
 Has the overall responsibility for record handling and maintenance  
 Reviewing of records and dealing with monitoring data  
 Organizing internal audit for checking the data recorded  
 Has the overall responsibility for closing project non conformance and Implementing  
 Corrective actions before the verification

**3) Shift In charge:-**

Supervision and training the operators and maintaining training records  
 Has the overall responsibility of monitoring measurement and reporting  
 Will assist the Manager Operations in record handling, record checks and review during  
 internal audit  
 Check the data recorded by the operation in the individual sections as described in section  
 D



#### 4) Operator:-

The responsibility of operator to record appropriate data of the project activities represented in the monitoring table. Based on the monitoring frequency, the operator will measure and record the data in the logbook as per the instruction of his supervisor. The operational procedures for the training ,emergency preparedness, maintenance and calibration of monitoring equipment, monitoring measurements and reporting, record handling and maintenance , reviewing monitoring data, internal audit, performance reviews and corrective action are available at the plant.

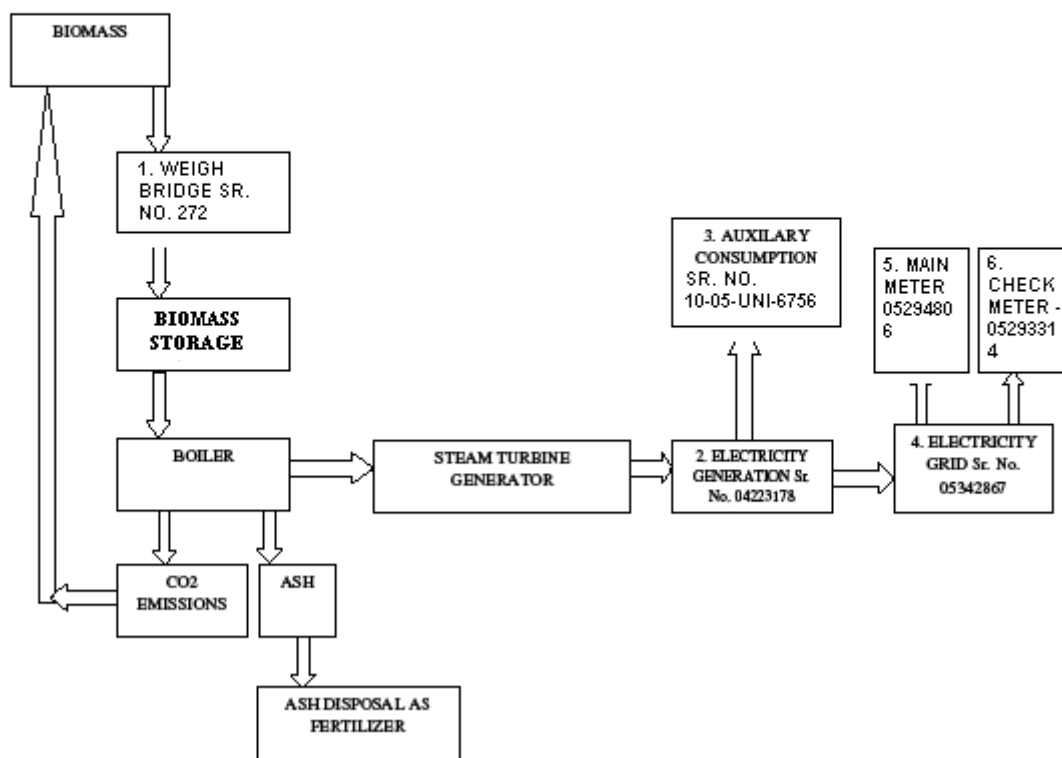
Baseline emission calculated on the basis of Net electricity exported to Grid Sub Station as per meter installed at GSS owned and controlled by RVPNL. The same data also used for billing purposed and verified by RVPNL and DISCOMs officials.

There are two meters installed at premises of Grid Sub Station of RRVPNL of 0.2s class, one as main mete(Sr. No. 05294806) and another as check meter (Sr. No. 05293314). Both the meters are calibrated periodically. Data for both the meters are taken through MRI (Meter Reading Instruments) and verified by RVPNL and DISCOMs officials on Joint Meter Reading (JMR).In case of failure of main meter data for the check meter can be used.

There is one more meter (Sr. No. 05342867) of 0.2s class installed at Switch yard of plant premises from where electricity is feed to RVPNL GSS through transmission line . Data of this meter is used for of electricity exported to GSS from plant and line loss there on. This meter is also calibrated periodically.

### SCPL – MONITORING REPORT

A pictorial representation of the location of the monitoring equipment involved in project activities: -



### Monitoring Equipment Calibration Details

Sr. No.	Details of Meter	Sr. No. of Meter	Date of Calibration	Date of Previous Calibration
1	Weigh Bridge	272	06/02/2012	21/02/2011
2	Generation Meter	04223178	04/08/2011	12/08/2010
3	Auxiliary Consumption Meter	10-05-UNI-6756	04/08/2011	12/08/2010
4	Export Meter (Plant)	05342867	04/08/2011	12/08/2010
5	Export Meter, Main (GSS)	05294806	04/08/2011	12/08/2010
6	Export Meter, Check (GSS)	05293314	04/08/2011	12/08/2010

**SECTION D. Data and parameters****D.1. Data and parameters fixed ex ante or at renewal of crediting period***(Copy this table for each piece of data and parameter.)*

<b>Data/Parameter</b>	<b>Density of fuel</b>
<b>Unit</b>	<b>Kg/Litre</b>
<b>Description</b>	Here fuel is referred to diesel which being consumed while biomass transporting to the project site.
<b>Source of data</b>	Paper
<b>Value(s) applied</b>	0.89
<b>Purpose of data</b>	Leakage emission calculations
<b>Additional comment</b>	Density of fuel (Diesel) had been measured in house laboratory through sample testing. This parameter will be fixed through out crediting period.

<b>Data/Parameter</b>	<b>Capacity of vehicle</b>
<b>Unit</b>	<b>MT</b>
<b>Description</b>	This parameter referred to capacity of the vehicle being used for transportation of biomass to the project site.
<b>Source of data</b>	Paper
<b>Value(s) applied</b>	Truck 10 MT and Trolley 3.5 MT
<b>Purpose of data</b>	Leakage emission calculations
<b>Additional comment</b>	This parameter indicates capacity of the vehicle transporting biomass to be project site and it will be fixed for throughout crediting period.

<b>Data/Parameter</b>	<b>Coal Caloric Value</b>
<b>Unit</b>	<b>Kcal/Kg</b>
<b>Description</b>	This parameter referred to calorific value of fossil fuel ( Coal) used if any
<b>Source of data</b>	Paper
<b>Value(s) applied</b>	-
<b>Purpose of data</b>	Leakage emission calculations
<b>Additional comment</b>	Not applicable as no fossil fuel (Coal) is used since start of the project activity as well as in current monitoring period.



**D.2. Data and parameters monitored***(Copy this table for each piece of data and parameter.)*

<b>Data/Parameter</b>	<b>Total electricity generated</b>
<b>Unit</b>	<b>kWh</b>
<b>Description</b>	This parameter referred to electricity generation from the project activity measured in plant premises.
<b>Measured/Calculated/Default</b>	Measured
<b>Source of data</b>	Log book record ( Electronically archived)
<b>Value(s) of monitored parameter</b>	30,135,500
<b>Monitoring equipment</b>	Monitoring equipment – Energy Meter Type- ER300P Accuracy class- 0.5 Serial number- 4223178 Calibration frequency- Annual Date of last calibration – 04/08/11, (Previous calibration date 12/08/10) Validity- Till 03/08/12
<b>Measuring/Reading/Recording frequency</b>	Shift wise
<b>Calculation method (if applicable)</b>	-
<b>QA/QC procedures</b>	Internal QA /QC procedure are available at the project site and same is being followed for data monitoring and archiving, this data is being continuously monitored through DCS
<b>Purpose of data</b>	Total electricity generated is used to cross check the data regarding to Electricity Exported to GSS, which is directly used to calculate the baseline emission.
<b>Additional comment</b>	



<b>Data/Parameter</b>	<b>Auxiliary Consumption</b>
<b>Unit</b>	<b>KWh</b>
<b>Description</b>	This parameter referred to electricity Auxiliary Consumption by the project activity measured in plant premises.
<b>Measured/Calculated /Default</b>	Measured
<b>Source of data</b>	Log book record ( Electronically archived)
<b>Value(s) of monitored parameter</b>	3,014,161
<b>Monitoring equipment</b>	Monitoring equipment – Energy Meter Type- Power Pro Accuracy class- 1.0 Serial number- 10-05-UNI-6756 Calibration frequency- Annual Date of last calibration –04/08/11, (Previous calibration date 12/08/10) Validity- Till 03/08/12
<b>Measuring/Reading/ Recording frequency</b>	Shift wise
<b>Calculation method (if applicable)</b>	-
<b>QA/QC procedures</b>	Internal QA /QC procedure are available at the project site and same is being followed for data monitoring and archiving ,this data is being continuously monitored through DCS
<b>Purpose of data</b>	Auxiliary Consumption data is used to cross check the data regarding to Electricity Exported to GSS, which is directly used to calculate the baseline emission.
<b>Additional comment</b>	



<b>Data/Parameter</b>	<b>Power Export</b>
<b>Unit</b>	<b>kWh</b>
<b>Description</b>	This parameter referred to electricity Export to the grid by the project activity and it is being measured at RRVPNL
<b>Measured/Calculated /Default</b>	Measured
<b>Source of data</b>	Joint Meter Reading ( Electronically archived)
<b>Value(s) of monitored parameter</b>	22,750,310
<b>Monitoring equipment</b>	Monitoring equipment – Energy Meter Type- ER300P Accuracy class- 0.2 Serial number- 5294806 Main Meter, 5293314 Check Meter Calibration frequency- Annual Date of last calibration –04/08/11, (Previous calibration date 12/08/10) Validity- Till 03/08/12
<b>Measuring/Reading/ Recording frequency</b>	Shift wise-Power Exported to GSS continuously monitored at DCS at Plant and it is recorded Hourly and shift wise. Data at GSS is recoded continuously in GSS meter and arrived monthly basis through MRI( Monthly Reading Instruments)
<b>Calculation method (if applicable)</b>	-
<b>QA/QC procedures</b>	Internal QA /QC procedure are available at the project site and same is being followed for data monitoring and archiving, this data is being continuously monitored through DCS
<b>Purpose of data</b>	-The data is directly used to calculate the baseline emission.
<b>Additional comment</b>	



<b>Data/Parameter</b>	<b>Biomass Quantity</b>
<b>Unit</b>	<b>MT</b>
<b>Description</b>	This parameter referred to Quantity of Biomass transported to the project site.
<b>Measured/Calculated /Default</b>	Measured
<b>Source of data</b>	Weigh Bridge Register ( Archived on paper )
<b>Value(s) of monitored parameter</b>	52,293 MT
<b>Monitoring equipment</b>	Monitoring equipment –Weigh Bridge Type- Electronic Road Weigh Bridge Accuracy class- 5kg Serial number- 272 Calibration frequency- Annual Date of last calibration – 06/02/2012,( Previous calibration date – 21/02/2011) Validity- Till 05/02/2013 as per calibration certificate.
<b>Measuring/Reading/ Recording frequency</b>	Daily
<b>Calculation method (if applicable)</b>	-
<b>QA/QC procedures</b>	Internal QA /QC procedure are available at the project site and same is being followed for data monitoring and archiving.
<b>Purpose of data</b>	Leakage Emission Calculation
<b>Additional comment</b>	



<b>Data/Parameter</b>	<b>Biomass Calorific Value</b>
<b>Unit</b>	<b>Kcal/Kg</b>
<b>Description</b>	This parameter referred to Calorific Value of the biomass being used in project activity.
<b>Measured/Calculated /Default</b>	Measured
<b>Source of data</b>	Laboratory record ( Archived on paper)
<b>Value(s) of monitored parameter</b>	3180.31 (Average)
<b>Monitoring equipment</b>	Monitoring equipment – Bomb Calorimeter Type- Macro Scientific Works, MSW - 506 Accuracy class- 0.1 Serial number- 3284 Calibration frequency- Annual Date of last calibration –30/08/2011, (Previous calibration date-04/09/2010,) Validity- Till 29/08/2012
<b>Measuring/Reading/ Recording frequency</b>	Fortnightly
<b>Calculation method (if applicable)</b>	-
<b>QA/QC procedures</b>	Internal QA /QC procedure are available at the project site and being followed for data monitoring and archiving,
<b>Purpose of data</b>	Leakage Emission Calculation
<b>Additional comment</b>	



<b>Data/Parameter</b>	<b>Coal Quantity</b>
<b>Unit</b>	<b>MT</b>
<b>Description</b>	This parameter referred to coal consumption in the project activity if any
<b>Measured/Calculated /Default</b>	Measured
<b>Source of data</b>	Log Book records (Archived on paper)
<b>Value(s) of monitored parameter</b>	-
<b>Monitoring equipment</b>	Monitoring equipment –Weigh Bridge Type- Electronic Road Weigh Bridge Accuracy class- 5kg Serial number- 272 Calibration frequency- Annual Date of last calibration – 06/02/2012, (Previous calibration date – 21/02/2011) Validity- Till 05/02/2013 as per calibration certificate. It is being used for Quantity of Biomass transported, the same can be used for Coal quantity also, if required
<b>Measuring/Reading/ Recording frequency</b>	Daily, Coal is not used since start of the project activity as well as in current monitoring period.
<b>Calculation method (if applicable)</b>	-
<b>QA/QC procedures</b>	Internal QA /QC procedure are available at the project site and being followed for data monitoring and archiving,
<b>Purpose of data</b>	Leakage Emission Calculation
<b>Additional comment</b>	

<b>Data/Parameter</b>	<b>Distance of procurement</b>
<b>Unit</b>	<b>Km</b>
<b>Description</b>	This parameter referred to distance of procurement of biomass for the project activity.
<b>Measured/Calculated /Default</b>	Calculated
<b>Source of data</b>	Gate Entry slip, Letter from biomass supplier. ( Archived on Paper)
<b>Value(s) of monitored parameter</b>	50
<b>Monitoring equipment</b>	-
<b>Measuring/Reading/ Recording frequency</b>	Daily
<b>Calculation method (if applicable)</b>	This parameter is being calculated at vehicle entry gate and at is being recorded in gate entry slip.
<b>QA/QC procedures</b>	Internal QA /QC procedure are available at the project site and being followed for data monitoring and archiving,
<b>Purpose of data</b>	Leakage Emission Calculation
<b>Additional comment</b>	

<b>Data/Parameter</b>	<b>Mileage of Vehicles</b>
<b>Unit</b>	<b>Km/Litre</b>
<b>Description</b>	This parameter referred to the mileage of the vehicle being used for transportation of biomass to be project site.
<b>Measured/Calculated /Default</b>	Estimated
<b>Source of data</b>	Letter from biomass supplier ( Archived on paper)
<b>Value(s) of monitored parameter</b>	3.5
<b>Monitoring equipment</b>	-
<b>Measuring/Reading/ Recording frequency</b>	Monthly
<b>Calculation method (if applicable)</b>	
<b>QA/QC procedures</b>	Internal QA /QC procedure are available at the project site and being followed for data monitoring and archiving,
<b>Purpose of data</b>	Leakage Emission Calculation
<b>Additional comment</b>	

<b>Data/Parameter</b>	<b>Northern Grid CO2 emission Factor</b>
<b>Unit</b>	<b>tCO2/MWh</b>
<b>Description</b>	This parameter being used for calculation of base line emission of the project activity.
<b>Measured/Calculated /Default</b>	Calculated by Central Electricity Authority
<b>Source of data</b>	CEA data base version 7.0 <a href="http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm">http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm</a>
<b>Value(s) of monitored parameter</b>	0.8010
<b>Monitoring equipment</b>	-
<b>Measuring/Reading/ Recording frequency</b>	Annual
<b>Calculation method (if applicable)</b>	Latest CEA data base is used for the calculation of weighted average grid emission factor.
<b>QA/QC procedures</b>	
<b>Purpose of data</b>	Baseline emission calculation
<b>Additional comment</b>	

### D.3. Implementation of sampling plan

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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**

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Baseline emissions will be calculated by multiplying the total power exported to the grid with net baseline emission factor, as applicable for every monitoring period.

$$BE = TP_{exp} \times NEFB$$

Where,

- BE – Baseline Emissions per annum (tones/year)  
TP<sub>exp</sub> – Total clean power export to grid per annum  
NEFB – Net baseline emission factor

**Baseline Emissions**

Emission Reduction Calculations	Value	Units
CO2 Emission Factor	0.8010	KgCO <sub>2</sub> /kWh
Net Electricity Exported	22,750,310	kWh
Total Baseline Emission	18,222,998	KgCO <sub>2</sub> e
Total Baseline emission	18,222	TCO <sub>2</sub> e

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

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No project emissions are involved for the project activity as no fossil fuel i.e. coal is consumed in the project activity ever since start of the project activity.

**E.3. Calculation of leakage**

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The leakage activity identified, which contributes for GHG emissions outside the project boundary is transportation of biomass from biomass collection centres to biomass power project site.



Leakage will be calculated as per below:

$$Leakage = \frac{Q_{bio} \times D_p \times N_y \times D_n \times C_v \times C_f \times E_f}{C_t \times M}$$

$Q_{bio}$  = Quantity of biomass transported (MT/day)

$C_t$  = Capacity of truck/ vehicle carrying biomass (MT)

$D_p$  = Distance of procurement including return journey of vehicle (km)

$M$  = Mileage of vehicle (km/litre)

$N_y$  = No of days in a year

$D_n$  = Density of fuel (Kg/Litre)

$C_v$  = Calorific value of fuel (Kcal/ kg)

$C_f$  = Conversion factor from Kcal to Trillion Joules (TJ)

$E_f$  = Emission factor of fuel (ton CO<sub>2</sub>/ TJ)

1	Bio mass quantity	MT	52,293
2	Bio mass calorific value	KCal/kg	Average calorific Value for the monitoring period is 3180.31 Kcal/kg
3	Coal quantity	MT	0
4	Coal calorific value	KCal/kg	NA
5	Average distance of procurement	Km	50 Km
6	Mileage of vehicle	Km/Liter	Truck - 3.5 Tractor – 3.5
7	Density of fuel	Kg/Liter	0.89
8	Average capacity of vehicle	MT	Truck – 10.0 Trolley – 3.5
9	Leakage emission	tCO <sub>2</sub>	374

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

Time Period	Baseline emissions or baseline net GHG removals by sinks (tCO <sub>2</sub> e)	Project emissions or actual net GHG removals by sinks (tCO <sub>2</sub> e)	Leakage (tCO <sub>2</sub> e)	Emission reductions or net anthropogenic GHG removals by sinks (tCO <sub>2</sub> e)
01/11/11 to 30/06/12	18222	0	374	17,848

**E.5. Comparison of actual emission reductions or net anthropogenic 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 (tCO <sub>2</sub> e)	33,551	17,848

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

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Emission reduction (tCO<sub>2</sub>e) reduced due to-

1. Reduction in CO<sub>2</sub> emission factor (Net weight Average tCO<sub>2</sub>/MWh) from 0.94288 to 0.8010
2. Less electricity unit supplied to DISCOMs due to higher plant shut down period.
3. Excess leakage emission due to more biomass transport during the period, due to distance of biomass transportation (from both sides) increased from 30 km to 50 km.

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**History of the document**

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