

MONITORING REPORT
Version number 01, 28/06/2010

2.5 MW Rice Husk Based Cogeneration Plant at Hanuman Agro Industries Limited
UNFCCC reference number: 1667
First Monitoring period: 07/11/2008-31/12/2009 (Both days included)

SECTION A. General description of the project activity

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

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Hanuman Agro Industries Limited (HAIL) has successfully commissioned its 2.5MW biomass based cogeneration plant on 31/08/2006 with a purpose to utilise local biomass for meeting captive heat and electricity requirements. The project activity it not only supplementing the current & planned electricity generation from traditional fossil fuels but also conserving the fossil fuel (coal in this present scenario) and avoiding harmful gas emissions that would arisen from using the coal.

The project activity is using Fluidized bed combustion technology for generating heat and electricity. The installed capacity of the plant is 2.5 MW in cogeneration mode. The major plant/equipments installed within the project boundary involve

- 22 TPH Fluidised Bed Combustion Boiler
- 2.50 MW Extraction cum condensing Steam Turbine

The operations during the monitoring period have been able to achieve overall emission reductions of 36652 tCO₂e, details thereof is provided in the following table:

Year	overall emission reductions
	(tCO ₂ e)
2008(07.11.08 to 31.12.08)	6505
2009 (01.01.09 to 31.12.09)	30148
Total (tonnes of CO₂e)	36652

A.2. Project Participants

>> M/s Hanuman Agro Industries Limited (HAIL)

A.3. Location of the project activity:

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Town: Village Paragoan, Tehsil: Nawapara-Rajim, District: Raipur, Pin: 493885
State: Chhatisgarh,
Country: India
GPS Coordinates: 20°57'46 N Latitudes, 81°53'05 E Longitude

**A.4. Technical description of the project****>>Technology employed for the project activity**

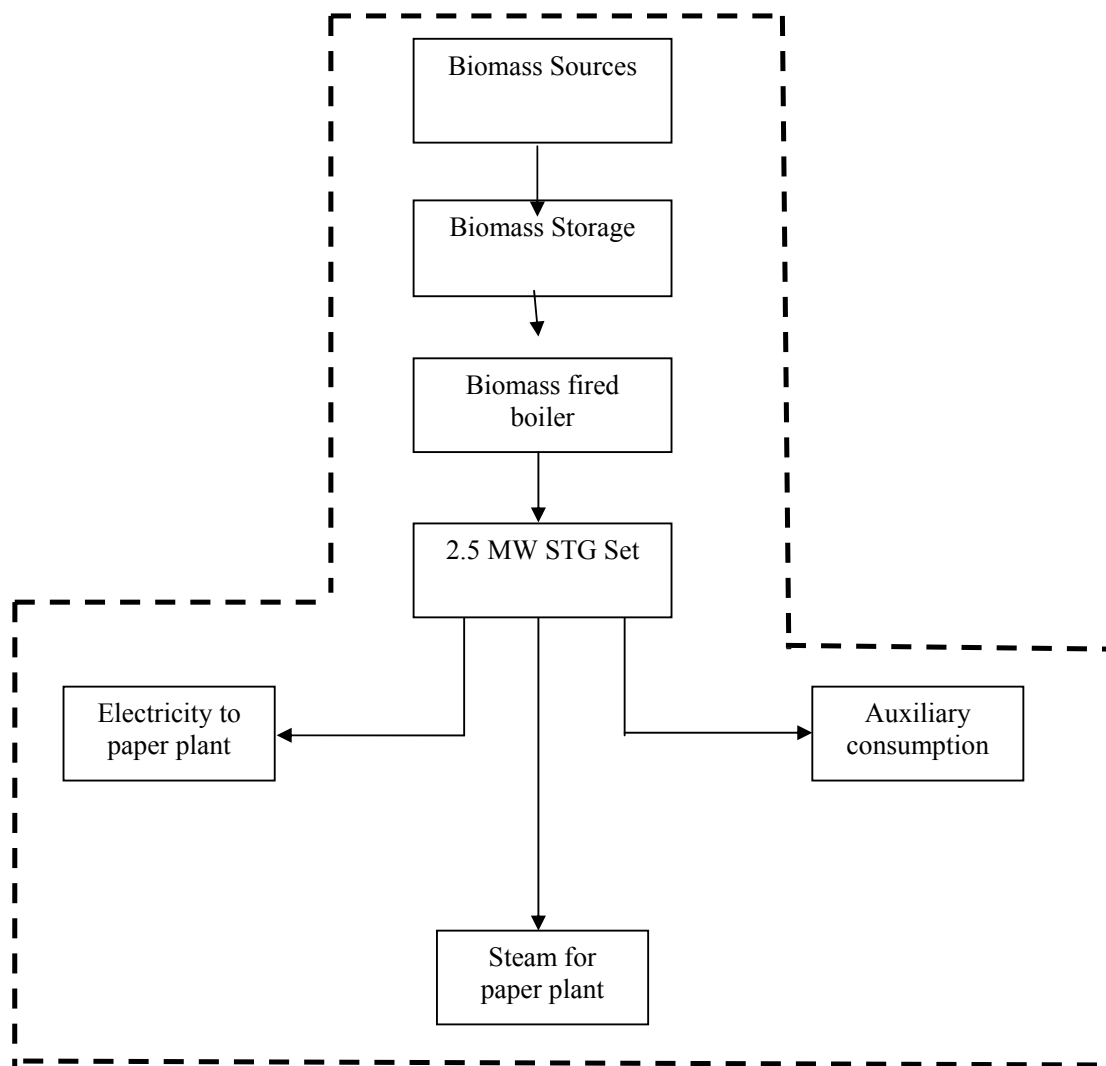
The plant installed one condensing cum extraction turbine along with 22 TPH high-pressure boiler with steam parameters of 44 kg/cm² and 450 °C. This boiler is of modern design with fluidised bed furnace suitable for outdoor installation with water scrubber for dust collection. Uninterrupted flow of rice husk to the boiler enabled by a twin bunker system located in front of the boiler. In case of exigencies of biomass fuel scarcity, HAIL purposes to use coal as fuel to the extent of 15%. The plant has seven days storage capacity for husk.

For generating maximum of 100% steaming capacity of the boiler at rated parameters, about 6.6 TPH of rice husk (100% rice husk firing) is required. The plant also has coal-handling facilities with necessary crushers and conveyors to meet the requirement in case of exigencies of biomass fuel scarcity. The project generates a gross power output of 2500 KW at the generator terminals. The power generation in the cogeneration plant is at 440V level. No transfer of technology is involved to host country because technology is available within India from reputed manufactures.

The plant is designed with all other auxiliary plant system like:

1. Rice husk and coal handling system.
2. Pneumatic Ash handling system
3. Air pollution control devices
4. Water system consist of following sub-systems:
5. Raw water system
6. Condensate system
7. RO system
8. Service and potable water system
9. Compressed air system
10. Fire protection system
11. Complete electrical system for power plant including, instrumentation and control system etc.

The schematic diagram of the proposed technology package is given below:



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

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The project activity used the approved baseline and monitoring methodology for small scale CDM project activity under

Title: Indicative simplified baseline and monitoring methodologies for selected small-scale CDM project activity categories
Type I : Renewable Energy Projects
Category: AMS-1.C. Thermal Energy for the user with or without electricity, Version 10

The baseline methodology had followed the one specified in Para 6 & 7 and the monitoring methodology in Para 17(b) of the referred document.

**A.6. Registration date of the project activity:**>> Registration date of the project activity: **07/11/ 2008****A.7. Crediting period of the project activity and related information (start date and choice of crediting period):**

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Start Date: 07/11/2008 which in accordance with the start date specified in PDD i.e. 01-01-2008 or the date of Registration under UNFCCC, whichever is later.

Crediting period: 7 years' Renewable crediting period in accordance with the registered PDD

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

>> Mr. Anil Kanoria Director, Hanuman Agro Industries Limited,

**SECTION B. Implementation of the project activity****B.1. Implementation status of the project activity**

>> The project activity was completed as planned in the project design document (PDD). The Biomass based cogeneration power has been successfully commissioned on 31-08-2006. The project was completed with major equipment supplied as follows:

S. No.	Equipment	Supplier
01	Boiler	Cheema Boiler Ltd.
02	Turbine	Pentagon Turbine (P) Ltd.
03	Alternator	Kirloskar Electric
04	E.S.P.	Adhor and Cheema
05	Fuel Handling Plant	Bevcon (P) Ltd.
06	Ash Handling Plant	O.S.M. Engineering (P) Ltd.
07	Mist Cooling tower	Mist
08	Balance of Plant	Various suppliers like Siemens for breaker and panel. AVR, Kirlosar, Ion Exchange, R.O. D.M. Plant Ultra filtration etc.

The project activity has been in continuous operation except for few Hours during the monitoring period, as given below:

Outages details for the period From 07.11.2008 to 31.12.2009

DATE	TIME	DURATION HOURS	TYPE	REASON
07.11.2008 to 09.11.2008	00:00 AM to 02:00 PM	62.00	Un-planned	Gear box overhauling
17.12.2008 to 18.12.2008	08:00 AM to 06:00 AM	22:00	Planned	Wire change & machine maintenance, Boiler maintenance
03.02.2009	09:30 AM to 06:00 PM	8:30	Un-planned	Pipe line gasket leakage VFD problem
14.02.2009 to 15.02.2009	08:30 PM to 06:00 PM	21:30	Planned	Air heater tube cleaning (Boiler)
09.03.2009 to 11.03.2009	10:00 PM to 11:00 AM	37:00	Un-planned	Boiler problem
31.03.2009	09:00 AM to	5.00	Un planned	Electrical breaker problem



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	02:00 PM			
26.05.2009 to	06:00 AM to 05:00 AM	24.00	Planned	Boiler maintenance
09.07.2009 to 10.07.2009	01:25 PM to 02:30 AM	37:05	Un planned	Boiler problem
16.07.2009 to 17.07.2009	07:50 PM to 09:50 PM	26:00	Un planned	Due to Boiler problem
21.07.2009 to 23.07.2009	02:50 AM to 05:30 AM	26:40	Un planned	Due to Boiler problem
10.08.2009 to 12.08.2009	10:05 AM to 02:15 AM	40:10	Planned	Due to Boiler maintenance
16.08.2009 to 28.08.2009	11:00 AM to 10:00 PM	288:00	Planned	Annual shut down of Boiler & plant
06.10.2009 to 07.10.2009	08:30 AM to 12:20 PM	27:50	Un planned	Due to Boiler clinker
25.10.2009	11:10 PM to 12:10 AM	1:00	Un planned	Steam pressure low
16.11.2009 to 17.11.2009	05:35 PM to 08:40 PM	27:05	Un planned	Electrical break down in Boiler
18.11.2009 to 19.11.2009	10:05 AM to 04:05 PM	30.00	Un planned	Break down in I.D. Fan
30.11.2009 to 10.12.2009	12:00 Noon to 12:36 PM	240.36	Planned	Stock pile up and sales problem.
16.12.2009 to 17.12.2009	10:45 AM to 08:00 AM	21.45	Un planned	Boiler problem
Total		946.11		

B.2. Revision of the monitoring plan

>> No revision of the monitoring plan.

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

>> No request for deviation to this monitoring period.

B.4. Notification or request of approval of changes

>> No notification or request of approval of changes made.

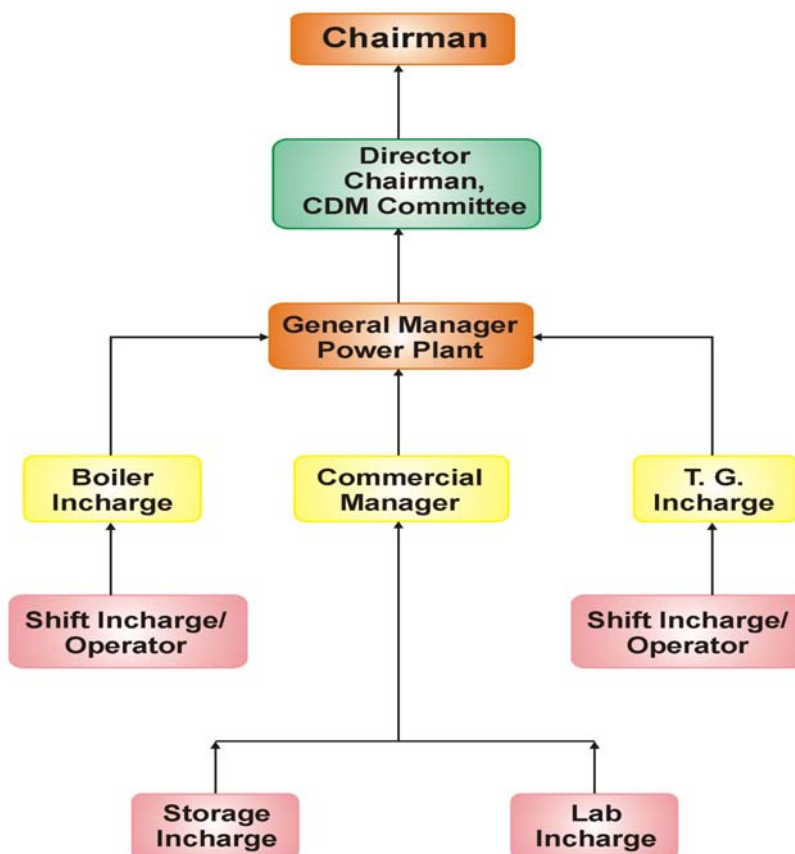
**SECTION C. Description of the monitoring system**

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Description of Monitoring System Adopted

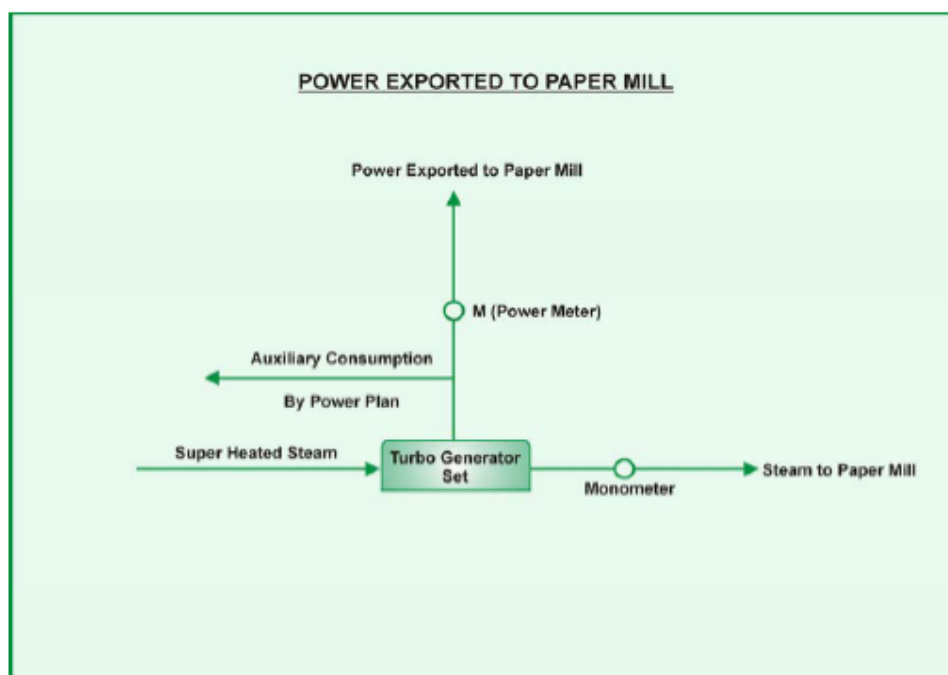
In accordance with the monitoring plan provided in the registered PDD with reference to the **project category** type AMC-1.C. - Thermal Energy for the user with or without electricity Version 10, HAIL has implemented the monitoring system as per the approved plan:

- i. “CDM Monitoring Team” was constituted as under:



- ii. Due training was imparted to CDM Monitoring Team Members on the entire process and procedures to be followed to monitor the emission reductions.
- iii. Due care was taken for monitoring calibration of monitoring equipments for quality control purpose. For this purpose a system has been evolved to record the information relating to calibration requirements of monitoring equipments.
- iv. Data Logging system in accordance with the approved monitoring plan has been implemented.
- v. Maintenance Procedure as per the suppliers' instructions has been followed to minimise the risk of failure. To keep check on the defects/maintenance, proper recording system been introduced.
- vi. To ensure the quality of the monitoring system M/s S.R. Corporate Consultant Private Limited, An ISO 9001-2008 company, has been engaged to carry out internal audit on annual basis. Reporting requirements as per the Approved monitoring plan have been implemented and followed.
- vii. To check the corrective actions being taken for the errors or deficiencies reported from internal audit or verifications, system has been evolved.

Schematic showing electrical power & steam output metering arrangements



**SECTION D. Data and parameters****D.1 Data and parameters determined at registration and not monitored during the monitoring period, including default values and factors**

Default values of following data have been used for calculating the baseline emission reductions, project emissions

(i) Data used for calculation of Onsite Carbon Emission Reduction due to avoidance of use of fossil fuel

D.1.1	
<i>(Copy this table for each data and parameter. To report multiple values, a table may be used)</i>	
Data / Parameter:	NCV_{coal}
Data unit:	TJ/kt
Description:	Calorific value of sub-bituminous coal
Source of data used:	2006 IPCC Guidelines for Natural Gas Inventories
Value(s) :	18.9
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Project emission calculations
Additional comment:	NIL

D.1.2	
<i>(Copy this table for each data and parameter. To report multiple values, a table may be used)</i>	
Data / Parameter:	CO₂EF_{coal}
Data unit:	Tonne CO ₂ per TJ
Description:	Baseline Emission Factor for sub-bituminous coal
Source of data used:	2006 IPCC Guidelines for Natural Gas Inventories
Value(s) :	96.10
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline and Project emission calculations
Additional comment:	NIL

(ii) Data used for calculation of Onsite Carbon Emission reduction by project activity due to displacement of electricity from Grid

D.1.3	
<i>(Copy this table for each data and parameter. To report multiple values, a table may be used)</i>	
Data / Parameter:	BEF_e
Data unit:	Kg CO ₂ per kWh
Description:	Baseline Emission Factor for Western Grid of India
Source of data used:	Baseline Carbon Dioxide Emission Database & User Guide - Version 3.0 Prepared by Central Electricity Authority, Government of India
Value(s) :	0.79



	(Lower of Combined Margin Factor and Weighted Average Margin Factor)
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculations
Additional comment:	National Default Value provided by Central Electricity Authority, Government of India

D.1.4 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:	η_{th}
Data unit:	%
Description:	Boiler Efficiency
Source of data used:	Calculated on the basis of actual measured data during 2001 to 2006
Value(s) :	76.7%
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculations
Additional comment:	As per AMS-I.C. version 10 paragraph 13 (a), highest baseline boiler efficiency measured during last six years has been considered.

D.2 Data and parameters monitored

Following parameters in accordance with the approved monitoring plan have been monitored at the site by means of accurately calibrated instruments and authentic procedure dedicated for the intended purposes.

D.2.1	
<i>(Copy this table for each data and parameter. To report multiple values, a table may be used)</i>	
Data / Parameter:	EG _{Gross}
Data unit:	GWh
Description:	Total electricity generated from the project Activity.
Measured /Calculated /Default:	Measured
Source of data:	Measured data at Plant Site
Value applied:	16.72
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Gross Energy Meter Sensor: CONZERV Serial number: 82608/24069-4305 Calibration Frequency: Annually Calibrating agency: Power Service Electricals, Bangalore Date Of Last Calibration: 21/08/2009



Measuring/ Reading/ Recording frequency:	Gross electricity generation had been measured through energy meter installed within the project boundary on continuous basis and Data had been recorded electronically through online PLC system and spot readings of the meter made eight hourly and recorded on logbook.
Calculation method (if applicable):	N.A
QA/QC procedures applied:	<ul style="list-style-type: none"> ■ Measurement through accurately calibrated Gross Energy Meter. ■ Cross-check of the data logging by department head on daily basis ■ Cross-check of the data logging by Commercial Manager on weekly basis ■ Cross-check of the data logging by General Manager on monthly basis

D.2.2 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:	EGy
Data unit:	GWh
Description:	The electricity consumed by the Paper Mill from the project activity.
Measured /Calculated /Default:	Measured
Source of data:	Measured data at Plant Site
Value applied:	14.75
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Net Energy Meter Sensor: CABS ELECTRA Serial number: C-4234 Calibration Frequency: Annually Calibrating agency: Power Service Electricals, Bangalore Date Of Last Calibration: 21/08/2009
Measuring/ Reading/ Recording frequency:	Net electricity supplied to the paper mill had been measured through energy meter installed with the project boundary on continuous basis and Data had been recorded electronically through online PLC system and spot readings of the meter had been made eight hourly and recorded on logbook.
Calculation method (if applicable):	N.A
QA/QC procedures applied:	<ul style="list-style-type: none"> ■ Measurement through accurately calibrated Net Energy Meters. ■ Cross-check of the data logging by department head on daily basis ■ Cross-check of the data logging by Commercial Manager on weekly basis ■ Cross-check of the data logging by General Manager on monthly basis



D.2.3 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:	$Q_{fc, \text{biomass}}$
Data unit:	MT
Description:	Total quantity of biomass used for generation of power & steam had been maintained at Plant site in form of Daily logbooks at stores department
Measured /Calculated /Default:	Measured
Source of data:	Measured at Plant Site
Value applied:	40047
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Project emission
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Weigh Bridge : Make Avery Serial No.51-HY-L-105 Calibration frequency : Annual Calibrating agency: Weights & Measurements Dept. , Office of the Legal Metrology Date of last calibration : 27/03/2009
Measuring/ Reading/ Recording frequency:	The Biomass quantity had been continuously measured at fuel receiving station & storage station through weighbridges. The supply of fuel to the steam generation set had been monitored on daily basis. Data had been recorded electronically as well as manually.
Calculation method (if applicable):	N.A
QA/QC procedures applied:	<ul style="list-style-type: none"> ■ Measurement through accurately calibrated Weigh Bridge. ■ Cross-check of the data logging by Storekeeper on daily basis ■ Cross-check of the data logging by Commercial Manager on weekly basis ■ Cross-check of the data logging by General Manager on monthly basis

D.2.4 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:	$Q_{fc, \text{coal}}$
Data unit:	MT
Description:	Total quantity of coal used for generation of power & steam had been maintained at Plant site in form of Daily logbooks at supply department
Measured /Calculated /Default:	Measured
Source of data:	Measured at Plant Site.
Value applied:	5678
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Project emission



Leakage emission calculations)	
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Weigh Bridge : Make Avery Serial No.51-HY-L-105 Calibration frequency : Annually Calibrating agency: Weights & Measurements Dept. , Office of the Legal Metrology Date of last calibration : 27/03/2009
Measuring/ Reading/ Recording frequency:	The coal quantity was continuously measured at fuel receiving station & storage station through weighbridges. The supply of fuel to the steam generation set was monitored on daily basis. Data was recorded electronically as well as manually.
Calculation method (if applicable):	N.A
QA/QC procedures applied:	<ul style="list-style-type: none"> ■ Measurement through accurately calibrated Weigh Bridge. ■ Cross-check of the data logging by Storekeeper on daily basis ■ Cross-check of the data logging by Commercial Manager on weekly basis ■ Cross-check of the data logging by General Manager on monthly basis

D.2.5 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:	Q_{steam}
Data unit:	TJ
Description:	Total quantity of steam generated per hour had been maintained at Plant site in form of Shift Engineer's report
Measured /Calculated /Default:	Measured
Source of data:	Measured at Plant Site.
Value applied:	282
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculations
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Steam Flow Meter Make: Endress+Hauser Serial number: C3015202000 Calibration Frequency: Annually. Date Of Last Calibration: 26/03/2009
Measuring/ Reading/ Recording frequency:	Steam generation had been measured through steam flow meter installed within the project boundary on continuous basis and Data had been recorded electronically through online PLC system and spot readings of the steam generation was made on hourly basis and recorded on logbook.
Calculation method (if applicable):	N.A
QA/QC procedures applied:	<ul style="list-style-type: none"> ■ Measurement through accurately calibrated Steam Flow Meter ■ Cross-check of the data logging by Department Head on daily basis ■ Cross-check of the data logging by Commercial Manager on



	weekly basis ■ Cross-check of the data logging by General Manager on monthly basis
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D.2.6 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:	Q biomass
Data unit:	MT
Description:	Evaluation of Surplus Biomass within a range of 50 Km from plant site
Measured /Calculated /Default:	Calculated
Source of data:	Secondary as well as primary data was collected by the third party working in this field
Value applied:	NIL
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	N.A
Measuring/ Reading/ Recording frequency:	Total quantity of rice husk, other biomass available in surplus that was used as fuel in the plant was carried out with the professional help.
Calculation method (if applicable):	
QA/QC procedures applied:	Assessment Through Professional Help

**SECTION E. Emission reductions calculation****E.1. Baseline emissions calculation****>> A. Baseline Emission Reductions:****i. Baseline Emission Reductions resulting from Steam/heat produced using fossil fuel:**

$$BE_{th} = HG_y * CO_2EF_{coal} / \eta_{th}$$

Where:

BE_{th} : The baseline emissions from steam/heat displaced by the project activity during the year y in tCO₂e.

HG_y : The net quantity of steam/heat supplied by the project activity during the year y in TJ.

CO_2EF_{coal} : the CO₂ emission factor per unit of energy of the fuel that would have been used in the baseline plant in (tCO₂ / TJ), obtained from reliable local or national data if available, otherwise, IPCC default emission factors are used.

η_{th} : the efficiency of the plant using fossil fuel that would have been used in the absence of the project activity.

ii. Carbon Emission reduction per annum by project activity due to displacement of electricity from Grid:

$$BE_{el} = EG_y \times BEF_e$$

Where,

BE_{el} : Carbon Emission reduction per annum by project activity due to displacement of electricity from Grid in t CO₂

EG_y : Net power supplied by the project activity i.e. Clean Power to be consumed by the entity replacing the Grid Power in GWh.

BEF_e : Baseline Emission Factor for Western Grid of India in Kg CO₂ per kWh

iii. Total Baseline Emission reduction per annum by project activity (BE_y)

$$BE_y = BE_{th} + BE_{el}$$

E.2. Project emissions calculation**>> Onsite Project Emission expected from the Project Activity (PE_y):**

The project may use coal as auxiliary fuel to the extent of 15% in case of exigency. The MNES also allows use of fossil fuel to the extent of 25% in case of exigencies. Accordingly the project emissions in the form of tonnes CO₂ from combustion of coal is calculated using CO₂ emission factor refereeing the IPCC 2006 Guidelines for National Green House Gas Inventories. Formula used for calculation:



$$PE_y = NCV_{\text{coal}} \times Q_{\text{fc}} \times CO_2EF_{\text{coal}}$$

Where

PE_y : Carbon-dioxide emission due to coal burning at project site in tCO₂
 NCV_{coal} : Calorific value of sub-bituminous coal in TJ/Kt
 Q_{fc} : Quantity of coal burned in MT
 CO_2EF_{coal} : Baseline Emission Factor for sub-bituminous coal (CO₂ Emission Co.

E.3. Leakage calculation

>> Leakage (Ly)

There is no energy generating equipment being transferred from or to another activity.
There is surplus availability of biomass, therefore leakage emissions are not considered.

E.4. Emission reductions calculation / table

>> Net Carbon Emission Reduction by project activity

$$ER_y = BE_y - PE_y - Ly$$

Where ER_y : Net Carbon Emission Reduction by project activity
 PE_y : Carbon-dioxide emission due to coal burning at project site
 Ly : Project Leakage

Year		2008	2009	
				Reference Formula No from Registered PDD
Period from		07/11/2008 to 31/12/2008	01/01/2009 to 31/12/2009	
Operating Period – days		55	365	
On site Carbon Emission Reduction due to avoidance of use of fossil fuel				
Capacity of Existing Boiler (TPH)	Parameters	12	12	
Boiler Efficiency	η	76.7%	76.7%	
Annual quantity of steam/heat supplied (MT)		14175	87423	MT
Steam Enthalpy		2774	2774	kJ/Kg
Annual quantity of steam/heat supplied (TJ)	HG _v	39	243	TJ
CO ₂ Emission Factor for Sub- bituminous Coal	CO ₂ EF _{coal}	96.1	96.1	t CO ₂ /TJ
Baseline Emission Reduction in tCO₂e	BE_y	4927	30385	i. Section B.6.3
On Site Project Emission Reductions due to displacement of electricity from the Grid				
No of Operating days per Annum	O _{days}	55	365	Days
No of Operating Hours per Day	O _{hours}	24	24	Hours
Gross Power Generation	EG _{gross}	2.27	14.46	GWh



Net Power Generation	EG _v	2.00	12.75	GWh
Emission Factor Considered	BEF _e	0.79	0.79	kg CO ₂ /kWh
Project Emission Reduction in tCO₂e	BERe	1578	10075	ii. Section B.6.3
Total Emission Reductions (CER)	BE_y+BERe	6505	40460	tCO₂e
On Site Project Emissions				
Qty of Coal consumed	Q _{fc}	0	5678	MT
Calorific Value of Sub-bituminous Coal	NCV _{coal}	18.9	18.9	TJ/Kt
CO ₂ Emission Factor for Sub-bituminous Coal	CO ₂ EF _{coal}	96.1	96.1	t CO ₂ /TJ
Project Emission in tCO₂e	PE	0	10313	ii. Section B.6.3
Project Leakage in tCO₂e	PL	0	0	
Net Carbon Emission Reduction =CER-PE-PL	CERp	6505	30148	t CO₂/TJ
Year	Net Carbon Emission Reduction in t CO₂			
2008	6505	tCO₂e		
2009	30148	tCO₂e		
Carbon Emission Reduction	36652	tCO₂e		

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

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Period	Estimated of overall emission reductions	Actual overall emission reductions
2008	32563	6505
2009	32563	30148
Total (t CO₂e)	65126	36652

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

>> For the year 2008, the estimation was for the whole year 2008 whereas the actual data is for the period 07/11/2008 to 31/12/2008.



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		