

Gold Standard Monitoring Report

Version 02

Date 01/07/2010

4.5 MW Biomass (low density Crop Residues) based Power Generation unit of Malavalli Power Plant Pvt Ltd.

UNFCCC Reference No: 0298

GS Reference No.: GS343

4th Verification (1st Periodic Verification of the 2nd Crediting Period)
Monitoring Period: 01/08/2008 – 30/04/2009

Net Emission reductions: 9,211 tCO₂e

Document prepared by:

K Kartick
Carbon Manager
South Pole Carbon Asset Management Ltd.
k.kartick@southpolecarbon.com

Table of Contents

1. Introduction.....	3
2. Monitoring Background.....	4
3. Parameters monitored according to the monitoring plan	6
4. Monitoring Results	7

1. Introduction

This Monitoring Report has been developed for the purpose of the Gold Standard verification exercise for greenhouse gas emission reductions achieved by the project activity titled “4.5 MW Biomass (low density Crop Residues) based Power Generation unit of Malavalli Power Plant Pvt Ltd.” and subsequent certification as per requirements of the UNFCCC Methodology Type I.D, for the period 01/08/2008 – 30/04/2009.

The information contained in this Monitoring Report corresponds to the Gold Standard verification criteria that are over and above the CDM verification criteria that are contained in the CDM Monitoring Report, available on the UNFCCC website:

<http://cdm.unfccc.int/UserManagement/FileStorage/JTL8F5RDNE64UW1V0OS39K7AXPMCHI>.

The verification has been conducted by an accredited Designated Operational Entity: DNV. The verification report is available on the following link:

<http://cdm.unfccc.int/UserManagement/FileStorage/PYRAEUDW10BZJ4LVG2NSFMI8X96HQ3>

The project was registered with CDM Executive Board on 21 July 2006 and was completed as planned and described in the Project Design Document (PDD). The project has been verified in the past and has issued (or in the process of issuing) Gold Standard Certified Emission Reductions (GS CERs) for the following vintages:

1st crediting period:

- First Monitoring Period – 01 August 2001 to 30 June 2006 – 77, 294 GS CERs
- Second Monitoring Period – 01 July 2006 to 30 September 2007 – 17,160 GS CERs
- Third Monitoring Period – 01 October 2007 to 31 July 2008 – request for issuance with UNFCCC 8,191 CERs – GS issuance to be proposed upon issuance of CERs

2nd Crediting period:

- First Monitoring Period - 01 August 2008 to 30 April 2009 – **9,211 CERs** issued by UNFCCC – GS issuance currently proposed by means of this report

The project has been promoted by MPPL Renewable Energy (P) Ltd, formerly Malavalli Power Plant (P) Ltd.

2. Monitoring Background

The Sustainable Development Matrix for the project activity is provided in the Gold Standard Annex submitted at the time of GS registration.

The Sustainable Development Assessment Matrix shows that there are no indicators, which would be critical for a positive contribution of the project to Sustainable Development or that are particularly sensitive. Further, the initial stakeholder consultation has not demonstrated any concerns, which would require special monitoring.

Upon approval of the project by the Gold Standard for retroactive validation (Gold Standard communication dated 8 December 2006), the Gold Standard recommended to monitor particulate matter emission levels as additional measure to regular CDM monitoring procedures.

Regular CDM monitoring procedures as specified in the PDD of the project activity account for:

- Determination of project emissions and emission reductions during the crediting period
- Determination of leakage due to transport of biomass and competing uses for biomass resources
- Determination of monitoring method (including data registration, monitoring, measurement and calibration) and the equipment applied
- Quality assurance and control procedures for the monitoring process
- Documentation of all relevant monitoring steps

Renewal of crediting period

Furthermore, the project proponent wishes to inform that as highlighted in the previous section, all GS CERs issued previously correspond to the 1st crediting period of the project activity. There has since been a renewal of the crediting period, as evident from the crediting period renewal from UNFCCC CDM website:

<http://cdm.unfccc.int/UserManagement/FileStorage/YGRS75IJEVWQMZX4C3OP8L2F0B61KN>

There has been no change in the baseline scenario and major monitoring procedures for calculating GHG emission reductions generated by the project. This is evident from the revised PDD available in the UNFCCC CDM website:

<http://cdm.unfccc.int/UserManagement/FileStorage/VRN9IYK32XFOHL8DEUSBZPMG10C457>

The same has been validated by an accredited DOE and explicitly mentioned in their validation opinion:

<http://cdm.unfccc.int/UserManagement/FileStorage/DWAZBYCS076QOHIPXUJMT529R1KEV3>

From the said documents, it can be argued that the renewal in crediting period brings about no impacts that can have any changes in the GHG emission reduction quantum of the project activity.

The GS CERs covered in the monitoring report under consideration correspond to the 2nd crediting period of the project activity. It may be justifiably concluded that as the baseline scenario and GHG emission reduction calculation and monitoring procedures are unchanged, the Gold Standard monitoring parameters shall also be the same for the 2nd crediting period of the project activity. Hence the Gold standard monitoring plan and parameters mentioned in subsequent sections of this Monitoring Report are same as the GS Annex submitted to the GS Registry at the time of project registration.

3. Parameters monitored according to the monitoring plan

The Gold Standard Monitoring Plan includes measurements of particulate emission levels in addition to the regular CDM monitoring procedures. It is also in line with the requirements of the Karnataka state's Pollution Control Board

Monitoring procedures for particulate emission levels:

Data / Parameter:	$EL_{particulateemissions}$
Data unit:	Ppm
Description:	Particulate emission levels measured periodically at the stack of the biomass based plant
Source of data to be used:	Periodical measurements carried out according to international standards by qualified professionals with qualified equipment
Measurement procedures (if any):	Particulate emission levels shall be determined based on a stack gas analysis using calibrated analyzers. Measurements shall be carried out according to international standards by qualified professionals with qualified equipment
Monitoring frequency:	Monthly measurements
QA/QC procedures to be applied:	Measurements shall be conducted by qualified institutions, which guarantee for the accuracy of the measurement procedures and equipment.
Any comment:	

4. Monitoring Results

Monitoring procedures:

The measurements have been conducted monthly by Amulya Associates, an independent external agency. The instrument used for the monitoring of stack emissions is an handy stack sampler from Envirotech (model number: APM 620).

Results:

The results of the suspended particulate matter (SPM) for the monitoring period under consideration, *i.e.*, 01 August 2008 to 30 April 2009 are provided below:

Sl. No.	Measurement Month	Measurement Date	SPM Amount (PPM)
1	August 2008	19/08/2008	132.00
2	September 2008	27/09/2008	138.00
3	October 2008	07/10/2008	124.00
4	November 2008	22/11/2008	105.00
5	December 2008	19/12/2008	130.00
6	January 2009	14/01/2009	116.00
7	February 2009	21/02/2009	128.00
8	March 2009	12/03/2009	134.00
9	April 2009	04/04/2009	126.00
<i>Reference: Monthly measurement reports issued by an independent external agency on the basis of tests conducted.</i>			

Conclusion:

The measured values of SPM from stack emissions are well within the maximum limits prescribed by the Karnataka state's Pollution Control Board of 150.00 PPM.

It can suitably be established that the project has complied with the Monitoring Plan laid out in the Gold Standard Annex and hence the **9,211 CERs** under for the monitoring period under consideration are eligible for issuance under Gold Standard.