



UNFCCC Secretariat
 Martin-Luther-King-Strasse 8
 D-53153 Bonn
 Germany

DET NORSKE VERITAS
 Certification AS
 International Climate Change Services
 Veritasveien 1
 NO-1322 Høvik
 Norway
 Tel: +47-6757 9900
 Fax: +47-6757 9911
 http://www.dnv.com
 NO 945 748 931 MVA

Att: CDM Executive Board

Your ref.:
 CDM Ref 0391

Our ref.:
 Brinks/KCHA/VIAS

Date:
 04 June 2009

Validation opinion-Request for revision of monitoring plan for project activity 0391 “Indur 7.5 MW Non-Conventional Renewable Sources Biomass Power Project”

We refer to the procedure for revising monitoring plans adopted at EB 26 and a mail from CDM Registration and Issuance team dated 6 May 2008. We herewith request a Revision of the monitoring plan for project activity 0391 titled “Indur 7.5 MW Non-Conventional Renewable Sources Biomass Power Project”.

The project activity has been registered with UNFCCC with ref. no. 0391 on 10 June 2006 seeking retroactive credits with a crediting period starting from 16 February 2003 to 15 February 2010 (renewable).

The revision of the monitoring plan is related to the request to include the monitoring of the diesel consumption in the project activity for the calculation of the project emissions during the remaining crediting period.

The revision to the monitoring plan is described below.

1. Project Description

The project is a 7.5 MW (gross) capacity grid-connected biomass-based power project. The project was commissioned in February 2003. The project utilises the available biomass in the region where the project activity is located, such as rice husk, bagasse, cotton stalks, juliflora etc. for generation of electricity that is exported to the Andhra Pradesh state electricity grid. It uses a condensing-type steam turbo generator with a matching boiler of travelling grate technology capable of firing multiple fuels. The technology used in this project is indigenous.

The project activity results in the reduction of GHG emissions through displacement of fossil fuel based southern region grid power by the biomass based renewable power.

According to the registered project design document the emissions due to usage of permitted quantity of coal are monitored as project emissions and deducted from total CERs.

As required by the monitoring methodology AMS-I.D version 07 and the registered PDD, monitoring of parameters essentially comprises:

- a) Gross electricity generated
- b) Auxiliary consumption of electricity
- c) Electricity exported to the grid

- d) Electricity imported from the grid.
- e) Biomass consumption and net calorific value of the biomass
- f) Coal consumption and carbon content in the coal and net calorific value of coal

The project has been issued CERs twice following CDM registration for the period 16 February 2003 to 31 March 2006 and 1 April 2006 to 31 March 2007.

2. Revision to the Monitoring Plan

According to approved small scale methodology AMS-I.D version 7 “Grid connected renewable electricity generation” the monitoring shall consist of metering the electricity generated by the renewable technology. In the case of co-fired plants, the amount of biomass and fossil fuel input shall be monitored.

Since this project activity is a co-fire plant, the amount of biomass and fossil fuel (coal) inputs are already made part of the monitoring plan while project was being validated and they are included in the registered PDD and monitored subsequently as per defined frequency.

During the previous two verifications it was observed that the project activity also consumed diesel for diesel generator set operations during emergencies. The diesel consumption was being monitored separately and the emissions due to the usage of diesel were accounted as project emissions in the previous issuance requests. The import of electricity from the connected grid during the plant shutdowns and emergencies would also contribute to project emissions and hence, the project activity has been accounting this parameter although it is not included in the monitoring plan of the registered PDD. This revision considers including the import of electricity as parameter to be monitored in order to improve the level of accuracy of monitoring. The electricity imported from the grid will be monitored using the same export meter of the facility.

In line with the EB requirements with respect to the revision of the monitoring plan to include the parameters which directly contribute to emission reduction calculations and were not part of the original monitoring plan of the registered PDD, the proposed revision to the monitoring plan includes the monitoring of the following additional parameters of,

- a) Diesel consumption in the project activity – direct measurement – daily
- b) Net calorific value of Diesel – sourced from IPCC – will be monitored yearly
- c) Density of diesel – sourced from IPCC – monitored yearly
- d) Oxidation factor of diesel – sourced from IPCC – will be monitored yearly.
- e) Import of Electricity from the connected grid – measured and recorded monthly

The project emissions due to electricity imported from grid and emissions due to Coal consumption are already taken care in the registered PDD.

(a) the proposed revision of the monitoring plan ensures that the level of accuracy or completeness in the monitoring and verification process is not reduced as a result of the revisions:

The revision of the monitoring plan does not affect the level of accuracy or the completeness in the monitoring and verification process. The parameter of diesel consumption was being monitored and incorporated in the emission reduction calculations earlier also as stated above. The proposed revision only incorporates the parameters in the monitoring plan.

(b) the proposed revision of the monitoring plan is in accordance with the approved monitoring methodology applicable to the project activity

The revision is related to the description of parameters and equations used when calculating the emission reductions in order to make the calculations more transparent. The proposed revision made for the calculation of project emissions is in accordance with the approved monitoring methodology AMS-I.D “*Grid connected renewable electricity generation*”.

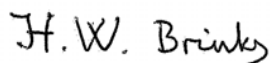
(c) the findings of previous verification reports, if any, have been taken into account

A forward action request (FAR) was raised to include the parameters for monitoring of project emissions due to diesel consumption during the first verification activity. It has been confirmed by the DNV that the FAR raised is completely taken care during this proposed revision of monitoring plan.

3. Validation opinion

It is DNV’s opinion that the inclusion of the above parameters completes the monitoring plan. Hence, DNV recommends the approval of the request for revision of monitoring plan to include the above mentioned parameters as stated in the revised monitoring plan submitted by the project proponent.

Yours faithfully
for DNV CERTIFICATION AS



Hendrik W. Brinks
Technical Director for CDM
International Climate Change Services