

Country Report
CTI the Sixth Workshop for Asia (at ICETT)

1. Name of Participant
PERLAS V> BUDUAN
2. Organization to which participant belongs
Corporate Technical Services – Environmental Management Group
San Miguel Corporation
3. Department and Duties

Job Description

- A. Compliance Monitoring
Responsible for the mitigation of complaints and concerns of communities around our plants, securing locational clearances, keeping abreast of legislations affecting San Miguel Corporation operations, and safeguarding the Company's commitment to the environment.
Main Objective:
To ensure that existing plants and new projects comply with all necessary environmental requirements to avoid penalties, Notices of Violation, Cease and Desist Orders (CDO), and adverse reaction from the host communities.
- B. Environmental Management Systems
Responsible for managing the plant's environmental management system, assessing its emergency environmental preparedness and response program and establishing a system of accountability and responsibility in addressing non-compliance.
Main Objective:
To manage the implementation and maintenance of an Environmental Management System throughout the corporation following international standards to help each plant systematically manage their environmental concerns both in the short and long term that will eventually result in higher productivity, less waste generation, least cost compliance and crisis violence.
 1. Wastewater Management
To generally manage wastewater concerns in support of the Environmental Management System, particularly the conduct of wastewater minimization studies and evaluation of new technological alternatives in wastewater treatment. Evaluation of alternative wastewater technologies
 2. Air Quality Management
To implement air quality management in the corporate framework in order to comply as required in the law in the most economical manner. Evaluate and recommend effective and economical solution to address air quality problem of each plant.
 3. Solid Waste Management
To oversee solid waste management in the corporate framework to achieve synergy, low unit costs, and optimal utilization of resources. Evaluate alternative solid waste treatment technologies for least unit cost operation and high resource conversion

C. Planning

Responsible for identifying facility requirements to ensure that existing and planned facilities shall have the capacity to perform and meet modern standards, prevent pollution and minimize wastes

Main Objectives:

To ensure that proposed projects meet all requirements of zoning, siting, water supply, waste disposal and local regulations to expedite execution, avoid adverse government intervention and preclude unfavorable host community reaction.

D. Process Design

Responsible for preliminary process design, and engineering equipment specifications, with flexibility to respond to revised plans and programs.

Main Objectives:

To ensure that wastewater treatment facilities are appropriate, well designed, functional, cost effective and executed by reputable contractors.

4. Impressions of the current situations

Please introduce your efforts to promote energy efficiency and cleaner production & cleaner production and CDM and cases of success and failure in your country.

Cleaner production:

In order to comply with the "Clean Air Act", the more that 100 plants of San Miguel Corporation will use the "Low Sulfur Fuel" (LSFO) for their boiler and Generator Sets. In order to meet the DENR Standard of 1,500 mg/Ncm of SO₂, the % SO₂ of the LSFO should be 0.7 to 0.9 % depending on the age and brand of the boiler and GenSet. Right now, SMC is using Bunker oil with 3% Sulfur content.

CDM:

There was a proposal from PHILBIO-Mitsubishi Securities to assess the carbon of the iUASB Project at San Miguel Brewery in San Fernando, Pampanga. The funding from NEDO will be utilized to provide for the necessary documentation for the clean development mechanism (CDM), the Project Design Document (PDD). The SMC project should have been the first in the Philippines to be studied for potential carbon emission reductions (CREs) at the brewery and/or poultry facility

Objective of the PDD and Validation were:

- Review existing infrastructure for wastewater treatment.
- Evaluate the GHG emissions coming from the waste canals from brewery, spent grains and poultry wastewater.
- Evaluate the indirect carbon emissions from the utilization of the methane gas for electric power and for energy (as a result of reduced electric power required)
- Undertake public forum to discuss the project with stakeholders in the SMC community (principally management and employees but also local government officials responsible for wastewater treatment).

Output

- IUASB Feasibility Study for San Fernando Complex

- Project Design Document or PDD to qualify as CDM Project.

Duration: Four months from October 1, 2002 to January 31, 2003

Follow-On Work - A Validation Report by a qualified third-party may be undertaken with funding by PhilBIO AND Mitsubishi Securities to validate the findings in the PDD.

Project Schedule - PhilBIO will advise complete schedule for the works to be undertaken by October 11, 2002.

The Project was on hold because when the project was presented to SMC, the Kyoto Protocol was not yet ratified, no National CDM Authority and no laws and Implementing Rules and Regulations regarding CDM, Energy Efficiency and Cleaner Production were established.

5. Problems, challenges and factors preventing the widespread use of technologies:

- The Philippine Government has to pass a law to promote energy efficiency, CDM and CP and then come up with the Implementing Rules and Regulations (IRR) so that there is a mechanism/system for the industries to follow.
- Lack of information dissemination regarding energy efficiency, CP, and CDM.
- No National CDM Authority yet in the Philippines