

## CDM – Executive Board

**Sustainable development:**

The project activity contributes to the sustainable development criteria set by the host country Designated National Authority (DNA), the National Clean Development Mechanism Authority (NCDMA), for CDM projects in the following manner:

**Social well-being**

The project activity is expected to contribute to social well-being by:

- Creating direct and indirect employment for the local rural population. Many people would be employed directly on site by the private entity (approx. 30), whereas numerous indirect jobs would be created in the collection and logistics activity of the biogas plants to ensure continuous substrate supply. Further, indirect jobs are needed in the upgrading, bagging and distribution of the organic fertilizer from the plant. Thus the project activity will contribute to raising the living standard of the local rural population.
- Improving the waste management practice and thereby improving the environmental quality of life of the local community: the frequent removal of poultry litter is required to sustain the continuous feeding of the biogas plant and would replace the otherwise uncontrolled disposal practices of the litter. This would lead to a reduction of bad odour and vector breeding in the surrounding areas of the poultry farm and help alleviate this clearly felt nuisance by the local population.

**Economic well-being**

The project activity is expected to contribute to economic well-being by:

- Contributing to the economic development of the region through the capital investment required for the construction of the plant;
- Creating economic activities and thereby creating jobs for the rural population;
- Diversifying the national energy supply;
- Reducing the power deficit in the state of Tamil Nadu.

**Environmental well-being**

The project activity is expected to contribute to environmental well-being by:

- Utilizing biomass residues and poultry litter which, in the absence of the project activity, would be left to decay and thus lead to uncontrolled methane emissions to the atmosphere as a result of the decaying process;
- Displacing carbon intensive grid-based power supply and hence reduce the carbon intensity of power production in Tamil Nadu by generating electricity from a renewable source;
- Providing high quality organic fertilizer and soil conditioner to local farmers and traders, which is produced as a by-product of the biogas production process;
- Reducing the danger of disease in people and animals as the controlled two-stage anaerobic digestion process nearly completely eliminates pathogens, germs and parasites.

**Technological well-being**

The project activity is expected to contribute to technological well-being by:

- Disseminating technological knowledge and know-how by introducing state-of-the-art technology adapted to local circumstances;
- Promoting technology transfer and encouraging further project development by demonstrating the feasibility of such a biogas plant in India;
- Increase security of electricity supply by adding local generation capacity.