

**Contribution of the project activity to sustainable development:**

Ministry of Environment and Forests, Govt. of India has stipulated the following indicators for sustainable development in the interim approval guidelines for CDM projects<sup>1</sup>:

**• Social well being**

*The CDM project activity should lead to alleviation of poverty by generating additional employment, removal of social disparities and contribution to provision of basic amenities to people leading to improvement in quality of life of people.*

- The project activity would generate employment in the region during construction as well as operation of the project activity.
- It would lead up liftment of society by generation of employment and development of the region.

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<sup>1</sup> <http://www.envfor.nic.in/cc/cdm/criteria.htm>

- It would augment power generation in the region that would aid the local population.

**• Economic well-being**

*The CDM project activity should bring in additional investment consistent with the needs of the people.*

- The project activity would lead to additional business for equipment suppliers, O&M contractors, civil work contractors etc.
- It would also lead to additional investment for the development of infrastructure in the region like roads; communication facilities etc and the same could be utilized by the local population.

**• Environmental well being**

*This should include a discussion of impact of the project activity on resource sustainability and resource degradation, if any, due to proposed activity; bio-diversity friendliness; impact on human health; reduction of levels of pollution in general.*

- The proposed project activity will reduce the GHG emissions associated with the combustion of fossil fuels in grid connected power plants.
- The project activity utilizes Solar Power as the source of kinetic energy used to generate renewable power. Solar power generation does not consume any fuels or water for power generation.
- Solar is a clean form of energy and electrical power generation using solar does not produce any solid waste products (such as ash from combustion), emissions of carbon dioxide, SO<sub>x</sub>, or NO<sub>x</sub>.

**• Technological well being**

*The CDM project activity should lead to transfer of environmentally safe and sound technologies with a priority to the renewable sector or energy efficiency projects that are comparable to best practices in order to assist in up-gradation of technological base.*

- The technology of use of solar PV for electricity generation is environmentally safe and sound. The success of the project will help in replication of technology and promote the generation of green power in the region. Dissemination of this project will contribute to technological growth related to the harnessing of solar energy for power generation in the state of Rajasthan.