



gas etc.) based thermal power stations in the grid and will be contributing to sustainable development through conservation of environment.

#### **Contribution of the project activity to Sustainable Development**

The Designated National Authority (DNA) for the Government of India (GoI) in the Ministry of Environment and Forests (MoEF), called the National CDM Authority (NCDMA), has stipulated four indicators for sustainable development in the interim approval guidelines for CDM projects<sup>1</sup> (mentioned below):

- Social well being
- Economic well being
- Environmental well being
- Technological well being

The project participants' views on the contribution of this project activity towards sustainable development with respect to the four indicators are explained below:

#### **A. Social well being –**

- The project activity would lead to alleviation of poverty by establishing direct and indirect benefits through employment generation at all levels from unskilled to skilled workers during the construction and operation phases.
- The project activity would augment grid supply and would contribute in mitigating the shortage in power necessary for the sustenance and development of the society
- The project activity would also require support services such as machine repair, spares, transport logistics, accommodation facilities and general day-to-day requirements during its different phases (construction and operations) which shall accelerate business and commercial activities in and around the project area.
- The project activity would also involve infrastructural development like roads etc. which would benefit the local community.

#### **B. Economic well-being -**

- The project activity would lead to capital investments in the developing region which otherwise would not have happened in the absence of this project activity.
- The project activity would generate employment for the local population. Further, the business opportunities would be enhanced by the project activity for local stakeholders such as consultants, suppliers, manufacturers, contractors etc.
- The project activity also leads to diversification of the national energy supply, which is at present, dominated by conventional fuel based generating units.

#### **C. Environmental well being -**

- The project activity is a renewable energy power project utilising hydro / water resources for power generation. The electricity generated would substitute the power generation by thermal power plants and would contribute towards the reduction in use of finite and non-renewable natural resources like coal etc.
- The project activity by generating clean power has excellent environment benefits in terms of reduction of GHG emissions and conservation of natural resources.
- The Catchment Area Treatment (CAT) plan envisaged & approved for the project by Government of Uttarakhand (GoU) would treat the degraded catchment areas of the project and would control soil erosion in the project area resulting in regeneration of natural forests and other ecosystems.

#### **D. Technological well being -**

- The project uses a proven and well established state of the art technology. Efficient turbines and generators are being used in the project and the power transmission will be at high voltage to ensure low losses.

---

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