SECTION A. Description of project activity

A.1. Purpose and general description of project activity

>>

The proposed project activity is a wind energy based power generation project of 3 MW capacity and involves the installation of 2 Wind Turbine Generators (WTGs) of 1.5 MW each by M/s L. B. Kunjir. The WTGs are located at Village Charan *Taluka*-Shirala, District-Sangli, Maharashtra, India. The project will generate electricity through sustainable means without causing any negative impacts on the environment. Project activity has commissioned on 31/03/2012.

The WTGs are manufactured by Suzlon and will convert the kinetic energy of wind into electrical energy. The generated electrical energy would then be supplied to the NEWNE grid in India. The project activity will achieve GHG emission reductions by avoiding CO_2 emissions from the business as usual scenario which is the generation of electricity from predominantly fossil fuel powered plants. It is estimated that the project activity will reduce 4,946 tCO_2 per year i.e. 49,460 tCO_2 in entire fixed crediting period of 10 years.

The project is a Greenfield power generation project where no renewable power had been generated prior to the project activity. Also there was no other kind of occupancy in terms of any other industrial project, dwelling of local people at the project site etc. The project activity has been commissioned on unused land where there was no need to remodel or demolish of any existing structure. Hence, in the pre-project scenario there was barren unoccupied land where the WTGs stand now.

In the absence of the project activity equivalent amount of electricity would have been generated by the operation of existing/proposed grid connected fossil fuel based power plants connected to NEWNE grid. The Project activity thus reduces the anthropogenic emissions of greenhouse gases (GHGs) in to the atmosphere associated with the equivalent amount of electricity generation from the existing/proposed fossil fuel based grid connected to NEWNE grid.

Contribution to Sustainable Development:

Social and economic well being:

The project activity will lead to improved infrastructure in the area due to construction of roads and other project related activities. The project will provide employment opportunities to skilled and unskilled workers from the region during its construction and operation. The proposed project activity also contributes to the improvement of the economic conditions of the local people as there will be an improvement in the availability of electricity which leads to further economic development of the area.

Environmental well being:

The project activity reduces carbon dioxide emissions through the avoided usage of fossil fuel based electricity generation. Being a renewable resource, using wind energy to generate electricity contributes to resource conservation. Thus the project will cause no negative impact on the surrounding environment contributing to environmental well-being.

Technological well being:

The technology employed is proven and environmentally safe and sound. The technology is available and supplied from the host country and hence there is no transfer of technology from an Annex I country.