SECTION A. Description of project activity

A.1. Purpose and general description of project activity

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The main purpose of this project activity is to generate clean form of electricity through renewable solar energy source. Narasimha Swamy Solar Generations Pvt. Ltd. is the promoter of the proposed project activity. The project activity involves installation of 5.2 MWp solar power project at Anantapur, Andhra Pradesh. Over the length of the crediting period, the project will replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 8,102tCO_2e per year, thereon displacing 8,253MWh / year amount of electricity from the generation-mix of power plants connected to the Southern regional grid, which is mainly dominated by thermal/fossil fuel based power plant.

The details of the project and the state of installation are mentioned in the table:-

Project Promoters' Name	Capacity in MW	Connection with Grid	State	Use of Electricity
Narasimha Swamy Solar Generations Pvt. Ltd.	5.2 MWp	Southern	Andhra Pradesh	Sale to third party

Sectoral Scope: 01 : "Grid connected renewable electricity generation", AMS I.D. (Version 18)
Project Type: (i) : Renewable energy projects

Scenario existing prior to the implementation of project activity:

The scenario existing prior to the implementation of the project activity, is electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system", Version 04.0 (EB 75, Annex 15).

Baseline Scenario:

As per the applicable methodology, a Greenfield power plant is defined as "*a new renewable energy power plant that is constructed and operated at a site where no renewable energy power plant was operated prior to the implementation of the project activity*".

As the project activity falls under the definition of a Greenfield power plant, the baseline scenario as per applied methodology is the following:

The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid.

Hence, pre-project scenario and baseline scenario are the same.

Sustainable development indicators

The National CDM Authority (NCDMA), which is the Designated National Authority (DNA) for the Government of India (GOI) under the Ministry of Environment and Forests (MoEF), has mentioned four indicators for the sustainable development in the interim approval guidelines for Clean Development Mechanism (CDM) projects from India [1] .Thus the project's contribution towards

[1] http://www.cdmindia.gov.in/approval_process.php

sustainable development has been addressed based on the following sustainable development aspects:

Social well being

The project activity provided / provides job opportunity to local people during erection, commissioning and maintenance of the solar panels. Frequency of visiting villages and nearby areas by skilled, technical and industrialist increase due to installation /site visit/operation and maintenance work related to solar plant. This directly and indirectly positively effects the economy of villages and nearby area.

Environmental well being

Solar power is one of the cleanest renewable energy powers and does not involve any fossil fuel. There are no GHG emissions. The impact on land, water, air and soil is negligible. Thus the project activity contributes to environmental well-being without causing any negative impact on the surrounding environment.

Economic well being

The CDM project activity generates permanent and temporary employment opportunity within the vicinity of the project. The electricity supply in the nearby area improves which directly and indirectly improves the economy and life style of the area.

Technological well being

The project activity is step forward in harnessing the untapped solar potential and further diffusion of the solar technology in the region. The project activity leads to the promotion and demonstrates the success of solar projects in the region which further motivate more investors to invest in solar power projects. Hence, the project activity leads to technological well-being.

The Host County Approval issued by Indian DNA declaring acceptability of the Sustainable Indicators by the project activity shall be submitted to DOE.

A.2. Location of project activity

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Village : Peravali
Mandal : Singanamala
District : Anantapur
State : Andhra Pradesh
Country : India

Project Promoters' Name	Latitude	Longitude	Date of Commissioning
Narasimha Swamy Solar Generations Pvt. Ltd.	N 16° 44' 18.0"	E 81° 45' 47.2"	Not yet commissioned