A.1 Title of the small-scale project activity:

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Vanala Small Scale Hydropower Project
Version 05
29th June 2010

A.2. Description of the small-scale project activity:

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The Vanala Small Scale hydropower project is a 15 MW run of the river type small hydroelectricity generation project located on river Nandakini in Chamoli district of state Uttranchal. The project involves installation of two horizontal Francis turbines generating sets of 7.5 MW each for hydroelectricity generation.

The project proponent Him Urja Private Limited, by generation of renewable electricity, contributes towards reduction of GHG emissions that would have occurred by generation of equivalent amount of electricity in the fossil fuel based regional grid.

Contribution of the project activity to sustainable development:

Social well being:

- The project activity would generate employment opportunities for the local people during construction and operation phase of the project activity.
- The project activity would result in development of approach roads, markets etc and would lead to overall development of the region. It would significantly improve the connectivity of the area to nearby locations.
- Displacement of human inhabitation in the area is not involved in the project activity.

Economical well being:

- The project activity by providing employment opportunities to the local traders, labours, transporters would improve the living standards of the local people.
- The project would create a business opportunity for local suppliers, manufacturers, contractors etc. during the various phases of the project.

Environmental well being:

- The project activity reduces GHG emissions which would have occurred in the absence of the project due to generation of electricity in fossil fuel based generating stations.
- The project activity is a step towards environmental sustainability by saving exploitation and depletion of a natural, finite and non-renewable resource like coal/gas.
- This is a run of the river hydel scheme, which involves no storage of water and thus there is no submergence of forest and cultivated lands.

Technological well being:

- The project makes use of efficient environmentally safe technology for power generation.