

# Key Project Information:

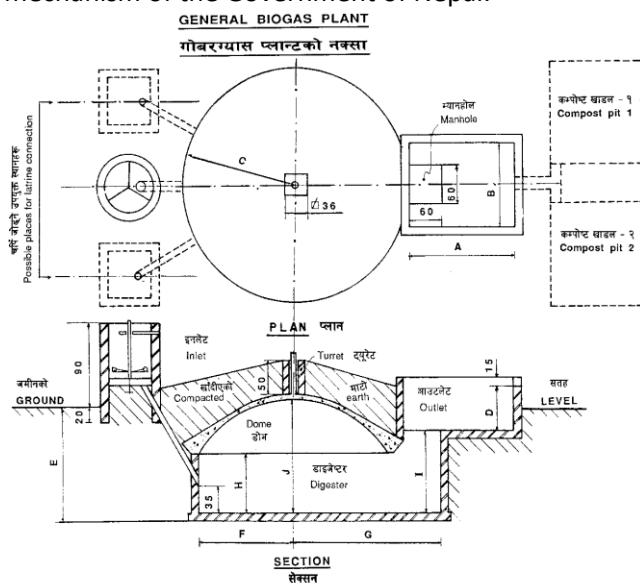
## Nepal Biogas Support Programme-PoA

### *Nepal Biogas Support Program - CPA 1: 20,000 digesters*

#### 1. Description of PoA and Component Project Activities

Nepal Biogas Support Programme-PoA is registered with the UNFCCC CDM executive board on 31/01/2013. Until now, there are 10 CPAs included in the PoA. Nepal Biogas Support Program is a nation-wide programme for the dissemination of household biogas digesters, managed by Alternative Energy Promotion Center (AEPC). It is registered under the Clean Development Mechanism (CDM) in order to allow for the generation of carbon credits since January 31 2013. Additionally, the PoA has retroactive registration under the Gold Standard, which implies a particular focus on sustainable development benefits. The PoA and its 10 CPAs are registered/included in GS.

The PoA includes the biogas plants implemented from 22<sup>nd</sup> June 2007. The PoA consists in several CDM project activities (CPAs) that will consist in the dissemination of approx. 20,000 household biogas digesters each; all CPAs will be implemented within the geographical boundary of Nepal. The type of the digesters included will receive the subsidies as governed by the subsidy policy and subsidy delivery mechanism of the Government of Nepal. These component project activities are implemented within the geographical boundary of Nepal. The type of the digesters included received the subsidies as governed by the subsidy policy and subsidy delivery mechanism of the Government of Nepal.



**Fig: Plan and Section View of Biogas Plant**



**Fig: Biogas Digester in Operation**

#### ***Nepal Biogas Support Program - CPA 1: 20,000 digesters***

This Component Project Activity (CPA) is part of the Nepal Biogas Support Program-Programme of Activity (PoA). This CPA includes 20,000 digesters which were implemented between 22 June 2007 and 18 March 2009. The CPA was included in PoA on 25<sup>th</sup> January 2019 under CDM GS. The 1<sup>st</sup> crediting period in CDM is going to be ended on 30<sup>th</sup> January 2025. Table 1 provides an overview of the digesters according to their size and location.

**Table 1: Digesters listed in this CPA.**

Region Size	Terai	Hill	Mountain Remote Hill	or	Total
4 m <sup>3</sup>	1584	1,511	16		3,111
6 m <sup>3</sup>	7798	7,726	93		15,617
8 m <sup>3</sup>	628	628	7		1263
10 m <sup>3</sup>	1	7	0		8
<b>Total</b>	<b>10,011</b>	<b>9,872</b>	<b>116</b>		<b>19,999</b>

## 2. Responsible Parties

### *Alternative Energy Promotion Centre*

Alternative Energy Promotion Centre (AEPC) is CME and Project Developer (PD) for these project activities. AEPC is a government institution to promote renewable energy in Nepal. AEPC provides subsidies to install the biogas plants in households and the biogas plants owners transfer the right on potential emission reduction/emission reduction generated to AEPC.

### *atmosfair gGmbH*

atmosfair gGmbH is a German not-for-profit company providing voluntary offsets for greenhouse gas emissions e.g. from air travel by CDM Gold Standard projects. AEPC & atmosfair has the contractual agreement for the crediting period renewal of the CPAs to continue the CPAs in GS.

## 3. Social, economic and environmental benefits and impacts

The project activities contribute towards the sustainable development on following aspects:

- i. Environmental Benefits:
  - a. Prevents deforestation and forest soil degradation caused by the harvest of firewood.
  - b. Prevents the emission of Greenhouse Gases from non-renewable biomass and that attributable to the anaerobic decomposition of the cattle dung that would have been left over for decay.
  - c. The byproduct of the digestion process, bio-slurry, can be used as fertilizer which maintains the soil quality and avoids the possible soil pollution due to use of synthetic fertilizers.
  - d. Improves indoor air quality by avoiding the smoky kitchen environment due to firewood use.
- ii. Social Benefits:
  - a. Reduces the drudgery in women caused due to tasks related to firewood collection and utensil cleaning and thereby saves time.
  - b. Improves sanitation by triggering the toilet construction at household level as the toilet can also be used as feeding material for the biogas digesters.
  - c. Improves the technical skills of the masons and other construction workers working in the sector.
- iii. Economic Benefits:



- a. The use of the bio-digesters at households makes the households self-reliant on the energy for cooking and thereby saves the investment for energy sources in long run.
- b. The jobs created by the sector help in the increased economic activity locally and nationally.
- c. The bio-slurry produced from the digestion process saves the investment required to source synthetic fertilizers.

This demonstrates that the component project activities contributes positively towards sustainable development.

#### 4. Continuous input/Grievance mechanism:

For this particular PoA, continuous grievance/input can be provided through one of the following methods:

Method	Detail
Continuous Input / Grievance Expression Process Book (mandatory)	Grievance Registration and continuous input: Grievance section: <a href="http://www.aepc.gov.np">www.aepc.gov.np</a> Alternative Energy Promotion Centre (AEPCC) Phone +9771-4598013, 4598014 Fax : +9771-5542397, 5539392
GS Contact (mandatory)	Gold Standard Foundation: International Environment House 2 Chemin de Balexert 7-9, 1219 Châtelaine, Geneva, Switzerland e-mail: <a href="mailto:help@goldstandard.org">help@goldstandard.org</a>
Other	Nepal Biogas Promotion Association (NBPA) Central Office: Kathmandu, Shantinagar, Gyankunja Marg, Ward No:31 Home No: 131/23 Near to: Tinkune Pool. P.O. Box No: 10074, Kathmandu, Nepal Tel: +977 (01)-4622113 Mob: +977-9851321496 Email: <a href="mailto:info@nbpa.org.np">info@nbpa.org.np</a>

#### For more detail information and feedback:

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