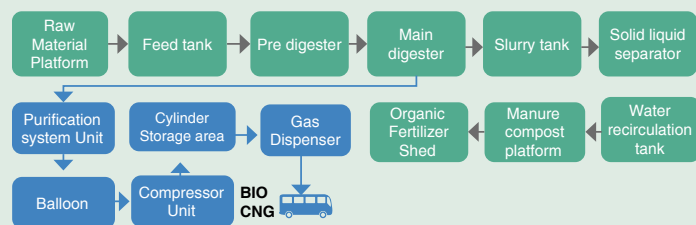




CITY IN FOCUS

Capacity of the facility	20 MT per day
Technology used	Bio-CNG
CAPEX	15 Cr
OPEX	NA
Products obtained	Bio-CNG and compost
Quantity of Bio-CNG generated	800kg on daily basis

INDORE

PROJECT	Biomethanation Plant for Wholesale Vegetable and Fruit Market, Indore
TYPE	Waste Management
Contact person	Ms Paramita Datta Dey, Program Lead, Mr Kaustubh Parihar, Project Associate (SBM Exposure Workshop Project)

A vegetable and fruit market in Choithram Mandi, Indore is successfully managing its daily waste in a sustainable manner by converting it into Bio-CNG. Approximately 20-25 MT per day of fruit and vegetable waste is generated in the market. Earlier, the waste was collected and transported to the centralized waste processing and disposal site of IMC. This incurred heavy transportation and manpower cost. Hence, IMC under its policy of promoting decentralized treatment of organic waste established a Bio-methanation plant (Bio-CNG Plant). Through tendering process; IMC appointed Mahindra & Mahindra Ltd., Mumbai to establish the plant, which was commissioned in December 2017. The concession period of the project is 15 years. Presently all the fruit and vegetable waste generated at Choithram Mandi is being collected and processed in the Bio-CNG plant.

Approximately 800 kg of purified and compressed Bio-CNG, having 95% pure Methane gas is generated on a daily basis. The pressurized Bio-CNG gas is used as a fuel to operate approximately 15 city buses. Therefore, with the use of the produced Bio-CNG, there is a saving of Rs. 4500 on the fuel expense of these buses, which would amount to a saving of about Rs. 1.35 lakh every month. The digested slurry is passed through solid liquid separation unit, filtered liquid is used in slurry making and the remaining solid are dried and converted into organic compost.

** Views are expressed in consultation with city officials during field visit*

KNOWLEDGE HUB



CLIMATE SMART CITIES ASSESSMENT FRAMEWORK 2.0

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FAIZA SOLANKI
ERP Consultant
Climate Program, WRI India

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TRAINING



VIRTUAL TRAINING ON

"SUSTAINABLE CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT"

09 - 11 February 2021

Training on "Sustainable Construction and Demolition Waste Management"

GIZ and ESCI conducted the first upscaling training on 'Sustainable Construction and Demolition Waste Management' from 9th-11th February 2021 for the Cities.

The training program was organized subsequently to the Training and Training of Trainers (ToT) conducted by GIZ, NIUA and DIFU under Climate Smart Cities Project in 2019 wherein ESCI was one of the participating Training Institutes. This training was part of the upscaling strategy of GIZ, wherein the training institutes who had participated in the original training and ToT take the training forward.

The Climate Centre for Cities (C-Cube), NIUA was the quality reviewer and shared their feedback on upscaled training.

The objective of the training was to build capacities of municipal functionaries and provide stepwise approach to develop, structure and implement Sustainable Construction and Demolition Waste (CDW) strategies in their respective cities. The training was attended by more than 30 officials from 13 Indian Cities that are implementing CDWM related projects.

EVENT



INDORE SMART CITY DEVELOPMENT LIMITED

Carbon Credit Trading and Financing

Master Class on Carbon Credits

C-Cube hosted its first virtual MasterClass for Cities on Carbon Credits on 9th February 2021. Led by Ms Aditi Garg, CEO, Indore Smart City Development Limited (ISCDL), the Master Class focused on capacity development of cities to raise additional sources of revenue by selling Carbon Credits from the projects undertaken by Urban Local Bodies and Smart City SPVs.

Ms Garg shared her experience of implementing the project on Carbon Credits for ISCDL. This will help ISCDL earn a revenue of at least INR 52 Lakhs/annum for the next 30 years.

Over 100 + City Officials participated in the 2-hour MasterClass which included an interactive Question and Answer session. As a way forward, C-Cube plans to support interested cities in developing projects to earn Carbon Credits.

ANNOUNCEMENTS

Climate Centre for Cities, NIUA is participating as a session partner at the India Smart Utility Week being organised by the India Smart Grid Forum. Dr. Umamaheshwaran Rajasekar, Head, C-Cube will be a panelist for Session 5: Disaster (And Pandemic) Resilient Utilities And Cities on March 3, 2021 at 4 pm IST. Registration: Please register [here](#)

India SMART UTILITY Week 2021

02 - 05 March 2021

Digital Platform

Join us for

Thematics Session

DISASTER (AND PANDEMIC) RESILIENT UTILITIES AND CITIES

On 3rd March 2021

Organised by

ISGF

India Smart Grid Forum

DAY 2 of

#ISUW2021



DR UMAMAHESHWARAN RAJASEKAR
Head- Climate Center for Cities,
Chair - Urban Resilience Unit,
National Institute of Urban Affairs

Climate Centre for Cities

National Institute of Urban Affairs

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