

CLIMATE CENTRE FOR CITIES

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City in Focus

Jammu (Katra)

Katra located near Jammu at an altitude of 5200 ft in the foothills of Trikuta Mountains serves as the base camp for pilgrims who visit Vaishno Devi Shrine. More than 10 million pilgrims visit the Vaishno Devi Temple every year. To reach the Vaishno Devi Temple, these pilgrims have to trek a total length of 20.5 km. Upto 15 km, horses or mules carry pilgrims from Katra. Managing the dung of more than 4600 horses and mules that ply on this 15 km trek is one of the major challenge. Shri Mata Vaishno Devi Shrine Board (SMVDSB) is responsible for management, administration and governance of the Shri Mata Vaishno Devi Shrine and its endowments, including land and buildings attached to the Shrine. Earlier, in the absence of proper disposal facility, the dung was either thrown into Banganga river or burnt or destroyed, causing water and air pollution. For appropriate disposal of waste, the Shrine Board has now set up a 24x7 mule dung based biogas plant of 4 TPD capacity has been commissioned in Banganga, Katra by the Shrine Board in April 2012 and the plant is first of its kind to run purely on mule dung.

The project cost is approximately 53 lakh. The plant is based on the principle of anaerobic digestion of cow dung. The biogas generated by this plant contains 65% methane which is suitable for cooking, it is being used in langar to meet cooking energy requirements. The daily bio gas generation is 170-200 m³.

Biogas plant details	
Capacity of the facility	4 MT per day
Technology used	Anaerobic digestion
CAPEX (Rs.)	53 lakh
OPEX (Rs.)	operated by Shrine Board itself
Products obtained	Manure and Biogas
Quantity of biogas generated	200 m ³
Revenue Generated (if any)	Gas is used in community Kitchen
Manpower	5 persons

Waste to energy for clean cooking in community kitchens



Mule-Dung based Bio-Gas Plant, Banganga

KNOWLEDGE HUB

C-CUBE BLOG SERIES
State-level Institutionalization for Enhanced Synergy and Mainstreaming of Climate Actions in Indian Cities.
Link: <https://linktr.ee/ccube>

MUKESH PATIR
National Project Coordinator, CapaCITIES Phase-II, Climate Centre for Cities, National Institute of Urban Affairs writes about the importance of a state level institutional structure for successful mainstreaming of climate change actions in cities - A must have for Indian Cities.

Read blog [here](#).

State-level Institutionalization for Enhanced Synergy and Mainstreaming of Climate Actions in Indian Cities

C-Cube Blog, Mr Mukesh Patir, National Project Coordinator, CapaCITIES Phase-II, Climate Centre for Cities, National Institute of Urban Affairs writes about the importance of a state level institutional structure for successful mainstreaming of climate change actions in cities - A must have for Indian Cities.

Read blog [here](#).

ANNOUNCEMENTS

Introduction to C40 Cities' Air Quality Programme

Thursday,
8 April 2021
4-5 pm (IST)

Opening remarks
Dolly Oladini - C40 Senior Manager for Air Quality

Introduction to C40's Air Quality Programme and Network
Dolly Oladini - C40 Senior Manager for Air Quality

Introduction to C40 Cities' Air Quality Programme

We are pleased to invite you to a virtual workshop convened by C40 Cities Climate Leadership Group to present the work delivered by the Air Quality Programme in collaboration with Smart Cities Mission and Climate Centre for Cities on Thursday 8 April, 4pm (IST).

[Register](#)

EVENT



CLEAN INDIA SUMMIT

Session by WWF - India on Climate Resilience in Indian Cities



Dr. Umamaheshwaran Rajasekar
Head, Climate Centre for Cities (C-Cube) &
Chair Urban Resilience
National Institute of Urban Affairs (NIUA)

Clean India Summit

Dr Umamaheshwaran Rajasekar was one of the panelists at the Clean India Summit organised by WWF at the 6th Smart Cities India Expo on 24th March at 1430hrs where he spoke about ClimateSmart Cities Assessment Framework 2.0 and climate resilience in Indian cities.

Bringing data across different national initiatives under one roof with an aim to help the cities in adapting to the digital platforms primarily focusing on climate change had boosted the enthusiasm throughout the process. Considering the unique profile and challenges in different cities, it has been a great learning and rewarding experience to support 126 participating cities in the assessment

T Shravani

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Climate Centre for Cities

National Institute of Urban Affairs

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