



**ENLIGHTEN BIOFUELS &
BIOFERTILIZER PVT. LTD.**

☎ 7983331655, 8445488816

✉ enlighten.biofuel@gmail.com

Date: 31-01-2026

What is Biogas and Compressed Biogas (CBG)?

- **Biogas** is a renewable fuel produced from organic waste such as cattle dung, food waste and agricultural residues.
- When biogas is purified and compressed, it becomes **Compressed Biogas (CBG)**, which is similar to CNG and can be used for cooking, transportation and industrial purposes.

About the Nangli Dairy CBG Plant

The Nangli Dairy CBG plant processes organic waste generated from dairy and nearby sources.

Using advanced anaerobic digestion technology, the plant converts waste into:

- **CBG (clean fuel)**
- **Organic manure**, which is useful for agriculture

This plant has been developed by **CEID Consultants & Engineering Pvt. Ltd.**, a leading Indian company in biogas and CBG projects.

What Students Will Learn During the Visit

During the field visit, students will be guided through:

- Collection and handling of organic waste
- Biogas generation through natural biological processes
- Purification and compression of biogas into CBG
- Storage and utilization of CBG
- Use of by-products like organic fertilizer

A technical team member will explain the plant operations and answer student questions.

Environmental and Socio-Economic Benefits

The CBG plant helps in:

- Reducing air pollution and greenhouse gas emissions
- Managing organic waste in an eco-friendly way
- Producing clean and renewable energy
- Creating local employment opportunities
- Supporting India's renewable energy goals under initiatives led by the **Ministry of New and Renewable Energy (MNRE)**



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Nangli Project Details

EPC Contractor cum Technology Provider (LSTK Contractor)	M/s. CEID Consultants and Engineering Private Limited, 1 st Floor, Khurana Building, Old Airforce Colony, Sitto Road, Abohar-152116, Distt. Fazilka, Punjab
Name of the SPV	M/s. Enlighten Biofuels and Biofertilizer Private Limited (100% Subsidiary of M/s CEID)
Location of the Project	Nangli Dairy Colony, Najafgarh Zone, New Delhi
Plant Project Capacity	Biogas: 14000 cum per day CBG/Bio CNG: 5600 Kg per day
Raw Material	200 TPD Multiple Biodegradable Feed Stocks (Cow Dung, Fruit & Vegetable market waste)
Technology Used	Biogas Generation: Continuous Stirred Tank Reactor (CSTR) Biogas Purification: High Pressure Water Scrubbing (HPWS)
Date of Inauguration and trial commissioning	20.09.2025
Date of Commercial Commissioning	17.10.2025
Present Status	Project Successfully completed in all respect

M/s. CEID Consultants and Engineering Private Limited has successfully commissioned the 200 MTPD Bio-Gas Plant for Treating Bio-degradable waste (Cattle dung) in to generation of Bio-CNG / CBG at Nangli Dairy Colony in Najafgarh Zone on 17.10.2025 under the name of SPV M/s Enlighten Biofuels and Biofertilizer Private Limited as per tender terms and condition.

The project was formally inaugurated by the Hon'ble Chief Minister of Delhi on 20.09.2025. The CBG produced from the plant is being continuously injected into the IGL gas pipeline since 17th October, 2025. The details of the Project are as under:



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Facilitating Hon'ble Chief Minister of Delhi, Smt. Rekha Gupta by Sh. Prince Gandhi (CEO, CEID) & Sh. Rajaram Prajapati (Director, CEID) at the Inauguration of Delhi's First CBG project on 20th Sep 2025



Inauguration of Injection of Gas through Pipeline to IGL by Hon'ble Chief Minister of Delhi, Smt. Rekha Gupta



Facilitating Visit of Sh. Asheesh Joshi, Joint Secretary (GP) MoPNG; Sh. Vikash Singh, Director (GP) MoPNG; Sh. Sanjeev Bhatia, ED IGL; Sh. Rohit Dixit, GM IGL with Sh Prince Gandhi, CEO CEID at Delhi's First Compressed Biogas Plant of M/s Enlighten Biofuels & Biofertilizer Pvt Ltd at Nangli Dairy Colony, Delhi on 04th October 2025



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Continuous Stirred Tank Reactor (CSTR)



A	outer membrane
B	inner membrane
C	air flow system
D	belt system
E	anchor rail
F	non return valve
G	air blower
H	vacuum valve
I	over pressure valve
J	inspection window
K	ultrasonic



High Pressure Water Scrubbing Technology

Water is used to separate the carbon dioxide from biogas.

The process is based on the difference in solubility of carbon dioxide and methane in water and process parameters such as pressure and temperature in the water scrubber are chosen to maximize this difference in solubility.

Today, most water scrubbers are operated at a pressure around 6-8 bar(a).



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CEID - Credentials

- **GAIL (I) Limited** – Equity Shareholder of CEID
- Approved Technology Provider of CBG Plants – **Ministry of Petroleum & Natural Gas (MoPNG)**
- **IGL** – CEID JV (50:50) to set up CBG plants
- LEPC partner (Licensing Engineering Procurement and Construction) for setting up of CBG plants – **Indian Oil Corporation Limited (IOCL)**

GAIL's First MSW-Based CBG Plant - Ranchi, Jharkhand (150 TPD)
Inaugurated by Hon'ble Prime Minister of India

INAUGURATION CEREMONY
BY COMPRESSIONED BIOGAS (CBG) PLANT (150 TPD)
DESIGNED BY CEID CONSULTANTS & ENGINEERING PVT. LTD.
GAIL (INDIA) LIMITED
Ranchi, Jharkhand
SWACHH BHARAT MISSION
CEID CONSULTANTS & ENGINEERING PVT. LTD.
www.ceidconsultants.com

CEID Engineered and Commissioned GAIL's first MSW-based CBG plant in Ranchi, Jharkhand, designed to process 150 TPD of segregated municipal solid waste. The plant was **Commissioned on 2nd October 2024** and inaugurated by the Hon'ble Prime Minister of India. This project stands as a **Global First-** constructed after **leveling extremely rocky terrain** over a span of 1.5 years.

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BPCL's First 150 TPD MSW-To-CBG-To-Hydrogen Plant at Kochi, Kerala



CEID is executing **BPCL's first MSW-based CBG project** at Brahmapuram, Kochi, Kerala, designed to process **150 TPD of segregated municipal solid waste**. The groundbreaking ceremony was conducted on 2nd October 2024 by the Hon'ble Prime Minister of India. The project will produce **5.6 TPD of CBG** and **28 TPD of solid fertilizer**, with raw biogas generation of 13,500 m³/day. It is India's first facility where CBG will be utilized for **Green Hydrogen production (1.86 TPD)**.

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GREATER CHENNAI CORPORATION'S FIRST MSW-BASED CBG PLANT & CITYWIDE EXPANSION



Mayor M. K. Stalin

CEID is executing the **Greater Chennai Corporation's first MSW-based CBG plant** at Brahmapuram, Kochi, Kerala, designed to process **150 TPD of segregated municipal solid waste**. The groundbreaking ceremony was conducted on 2nd October 2024 by the Hon'ble Prime Minister of India. The project will produce **5.6 TPD of CBG** and **28 TPD of solid fertilizer**, with raw biogas generation of 13,500 m³/day. It is India's first facility where CBG will be utilized for **Green Hydrogen production (1.86 TPD)**.

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15 TPD CBG PLANT FOR DEMETER BIOFUEL ENERGIES PVT. LTD., AMBALA, HARYANA



Ex-Dy CM Haryana Shri Dushyant Chautala during Bhoomi Puja



CEID is developing a 15 TPD Compressed Biogas (CBG) plant at Ambala, Haryana for M/s Demeter Biofuel Energies Pvt. Ltd. This marks the group's second CBG facility and is promoted under the leadership of former Deputy Chief Minister of Haryana, Shri Dushyant Chautala. The plant will utilize **pressmud, spent wash and syrup** as key feedstocks.

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Integrated 10 TPD CBG Facility within Wave Group's Industrial Campus, Amroha



CEID is executing a 10 TPD pressmud-based CBG project for the Wave Group at Amroha, UP, within the Wave Industries integrated industrial complex. The plant features a unique long-distance feedstock handling system, where prepared slurry is pumped through pipelines over a distance of nearly 1 km from the unloading pit to the feeding tank, demonstrating CEID's advanced engineering capabilities.

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**CEID to set-up 50 TPD CBG plant for Honourable MLA,
Qadian, Gurdaspur, Punjab, Shri Fateh Jung Singh
Bajwa using MSW, Napier grass, press mud and Spent
Wash as feed stock**



Yours sincerely,

For and on behalf of **M/s Enlighten Biofuels & Biofertilizer Pvt. Ltd.**

**Prince Gandhi
Director**



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