

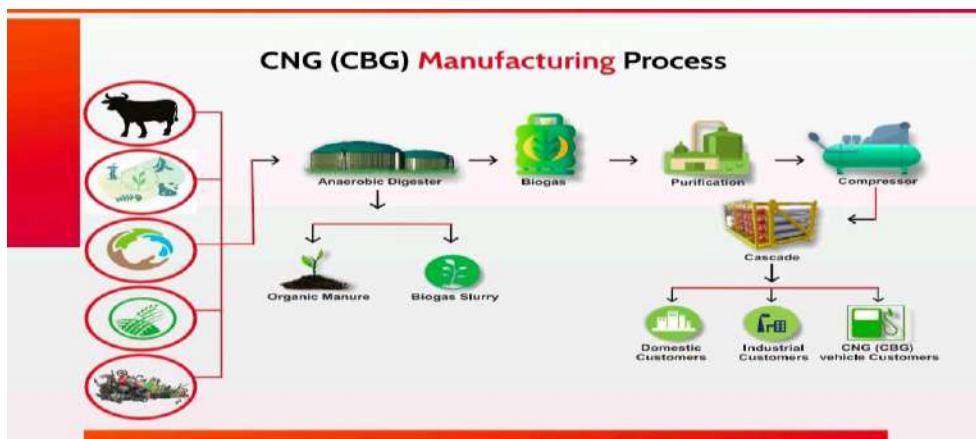
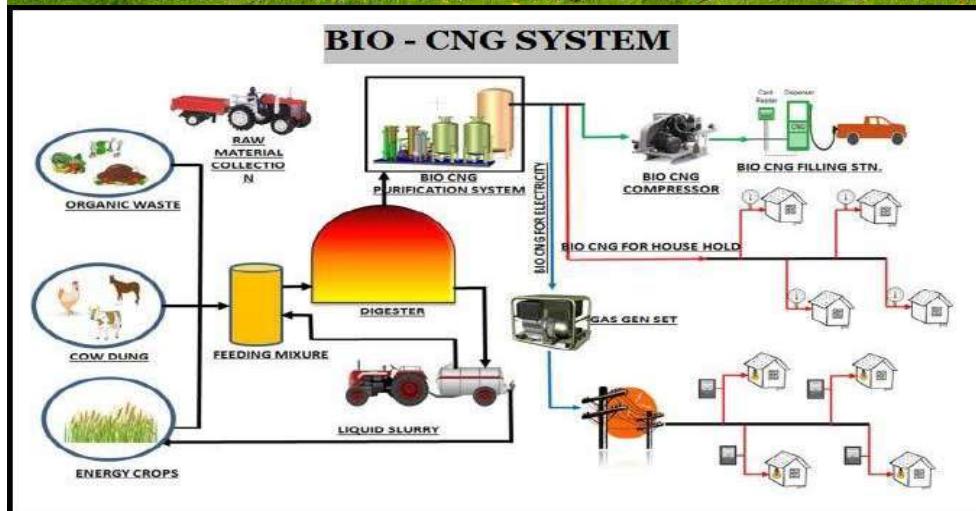


## MANUFACTURING ABOUT THE PROJECT

### • Proposed Project:

<b>Project Location</b>	Ambad Link Road, F Row HS No. 01, Chunchale Shivar, Lakshman Township, Nashik, Maharashtra, 422010, Contacts:- +91 7721010083 / +91 8329234219. <b>E-mail:</b> <a href="mailto:info@rutarajgreenbiofuel.in">info@rutarajgreenbiofuel.in</a>	
	<b>Connectivity</b> <span style="float: right;"><b>Approx. Distance (in Km.)</b></span>	
<b>Location Benefit</b>	Railway	13 Km
	Airport	26 Km
<b>Installed Capacity</b>	<b>Production Capacity</b>	<b>Proposed Production Capacity</b>
	Full / 100% operating Capacity	70%
	Operating Capacity	70%
<b>Manufacturing Process</b>	<p style="text-align: center;"><b>CNG (CBG) Manufacturing Process</b></p>	

	<p>1. <b>Input Materials:</b> The input materials for the biogas plant include agricultural wastes in Napar Gras, Sugar grass, rice straw, maize grass, cow's dung, poultry wastes, and also municipal solid waste, industrial biowaste, waste water sludge, animal waste, and agricultural biomass.</p> <p>2. <b>Anaerobic Digester:</b> These input materials are fed into an anaerobic digester, where they undergo anaerobic digestion process by microorganisms in the absence of oxygen.</p> <p>3. <b>Biogas Production:</b> The anaerobic digestion process results in the production of biogas, which is a mixture of methane and carbon dioxide.</p> <p>4. <b>Purification:</b> The biogas produced is then purified to remove impurities, such as carbon dioxide, hydrogen sulfide, and other contaminants.</p> <p>5. <b>Compression:</b> After purification, the biogas (which is primarily methane) is compressed, resulting in the production of Compressed Natural Gas (CNG) or Compressed Biogas (CBG).</p> <p>6. <b>Outputs:</b> The compressed biogas (CNG/CBG) can be used as a vehicular fuel for CNG vehicles or as an industrial gas. Other outputs from the process include organic manure (digestate) and biogas slurry, which can be used as fertilizers for farmer's farming and also get benefit of going through an advanced level. This fertilizer's make good packaging and branding, labeling, then sales to internationally and globally through export industries. This is an opportunity to create and grow profit margin.</p> <p>7. <b>Advantages:</b> Our Indian government gives subsidies on fertilizer of Rs 1500 per ton.</p>
<b>Product and its Types</b>	<p>1. Bio CNG (Compressed Natural Biogas) 2. CBG (Compressed Biomethane Gas)</p> <p>These renewable gaseous fuels are produced from the biogas generated by the anaerobic digestion of organic waste materials. They are clean-burning and can be used as a substitute for conventional natural gas in various applications, including transportation, heating, and electricity generation.</p>
<b>Upload Photographs of the Products</b>	<div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>OFMSW</p> </div> <div style="text-align: center;">  <p>Napier Grass</p> </div> <div style="text-align: center;">  <p>Poultry litter</p> </div> <div style="text-align: center;">  <p>Press mud</p> </div> <div style="text-align: center;">  <p>Segregated Food Waste</p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  <p>Rice Straw</p> </div> <div style="text-align: center;">  <p>Wheat Straw</p> </div> <div style="text-align: center;">  <p>Industrial Waste</p> </div> <div style="text-align: center;">  <p>Sewage Sludge</p> </div> <div style="text-align: center;">  <p>Cow Dung</p> </div> </div> <p>hu</p>



### Input Vs Output



	  
<b>Raw Material</b>	<p>The primary raw material for the biogas plant will be organic waste materials, such as:</p> <ul style="list-style-type: none"> <li>* Agricultural residues (crop residues, animal manure)</li> <li>* Municipal solid waste (food waste, green waste)</li> <li>* Industrial food processing waste</li> <li>* Sewage sludge</li> </ul>
<b>Raw Material Suppliers</b>	<p>Potential suppliers of raw materials will include:</p> <ul style="list-style-type: none"> <li>*Local agricultural communities and farmers</li> <li>*Municipal corporations and waste management authorities</li> <li>*Food processing industries</li> <li>*Sewage treatment plants</li> </ul>
<b>Utilities Power Requirement in KVA/ HP/KW</b>	<p>The proposed unit requires 350 KVA power connection.</p>
<b>Utilities Water Requirement in Liters</b>	<p>The water requirement for the biogas plant will be mainly for operational purposes, such as cooling, cleaning, and maintaining the anaerobic digestion process. The water will be sourced from local municipal water supplies or other authorized sources.</p>
<b>Effluent's treatment (if any)</b>	<p>No effluent would be generated from the proposed unit as the project is pollution free. Neither any smoke nor any effluents are involved in the manufacturing process. However, requisite approval shall be obtained from the PCB during the period.</p>

	<b>Manpower details</b>	<b>Number</b>
<b>Manpower Requirements</b>	Production Manager	1
	Quality Manager	1
	Marketing Manager	0
	Compliance / Secretarial Officer	
	Finance / Accountant Officer	1
	Office Assistants	1
	Store Officer	1
	Skilled - Semiskilled Workers / Operators	2
	Unskilled Workers	6
	Security workers	2
	Any Other	
	<b>Total</b>	<b>15</b>
<b>Proposed name of Insurance Company for taking the insurance of the project.</b>	M/s Bajaj General Insurance	
<b>Business Model and Market</b>	<p>The biogas plant will operate on a sustainable business model, generating revenue from the sale of Bio CNG/CBG to various customers, including:</p> <ul style="list-style-type: none"> <li>* Transportation companies (for use as a vehicle fuel)</li> <li>* Industrial and commercial establishments (for use as a fuel for heating, power generation, and other processes)</li> <li>* City gas distribution companies (for supply to residential and commercial customers)</li> <li>* Additionally, the plant may explore revenue streams from the sale of carbon credits, organic fertilizers (from digestate), and consulting services related to biogas and waste management solutions.</li> </ul>	
<b>Market availability of the proposed product</b>	<p>The market for Bio CNG/CBG is rapidly growing as a sustainable and eco-friendly alternative to conventional natural gas. With increasing focus on renewable energy sources and effective waste management practices, the demand for biogas-derived fuels is expected to rise significantly across various sectors, including transportation, industry, and residential applications.</p>	
<b>Marketing strategy</b>	<p>The marketing strategy for Bio CNG/CBG will focus on:</p> <ul style="list-style-type: none"> <li>* Promoting the environmental and sustainability benefits of biogas-derived fuels</li> </ul>	

<b>Why for the proposed product</b>	<ul style="list-style-type: none"> <li>* Highlighting the cost-effectiveness and reliability of Bio CNG/CBG compared to conventional fuels</li> <li>* Collaborating with government agencies, NGOs, and industry associations to raise awareness and drive adoption</li> <li>* Establishing strategic partnerships with potential customers, such as transportation companies, industrial units, and city gas distribution companies</li> <li>* Leveraging digital marketing channels and participating in relevant trade shows and exhibitions</li> </ul>
<b>SWOT (Strengths, Weakness, Opportunity &amp; Threats )</b>	<ul style="list-style-type: none"> <li>❖ <b>Strengths:</b> <ul style="list-style-type: none"> <li>* Innovative and proprietary biogas production technology</li> <li>* Commitment to environmental stewardship and circular economy principles</li> <li>* Experienced management team with expertise in waste management and renewable energy</li> <li>* Strategic location with access to organic waste sources and transportation networks</li> </ul> </li> <li>❖ <b>Weaknesses:</b> <ul style="list-style-type: none"> <li>* Capital-intensive nature of biogas plant setup and operations</li> <li>* Dependence on consistent supply of organic waste materials</li> <li>* Potential challenges in securing long-term off-take agreements for Bio CNG/CBG</li> </ul> </li> <li>❖ <b>Opportunities:</b> <ul style="list-style-type: none"> <li>* Growing demand for renewable energy sources and sustainable waste management solutions</li> <li>* Favorable government policies and incentives for biogas and bio fuel projects</li> <li>* Potential for carbon credit trading and revenue diversification</li> <li>* Expansion into international markets through strategic partnerships and collaborations</li> </ul> </li> <li>❖ <b>Threats:</b> <ul style="list-style-type: none"> <li>* Competition from established players in the biogas and renewable energy sector</li> <li>* Fluctuations in feed stock (organic waste) availability and pricing</li> <li>* Changes in regulatory frameworks or environmental policies</li> </ul> </li> </ul>
<b>Background Of Company's Director :</b>	<p>1) Director : <b>Sachin V Kamble.</b></p> <p>Ruturaj Green Biofuel Plant Private Limited is a newly established company founded by Sachin V Kamble there Education:- B.COM qualified, and also Buisness Related completed Shourt Courses of IDP(Industrial Developing Program) and also compited of Advance level of Import-Export course also take indeep knowledge specially about agricultural export Industries then started frist entpuner grny of Import and export and registed they fist frm of Import and export and gell lot of knowledge about in agricultural export secoters industries and now 2025 apter get 10 years old agricultural export industries experience. And they have desided in agricultural secoters to starrted to start-up of Manufacturing units and they have surching new voluble start-up business in agricultural, they have goted information about invative project of Green Energy secoters and geting lot of knowledge and information through by atending,webinars,seminars,krushi exhibition, and then joined shourt time course about green energy in course during priod understing this business model project and anilayesed this business and apter completed this course then get disitiosn to visiting green anregy industries in surat for getting practically knowledge of understanding part of agricultural feeds and technical machines and also geting lot of knowledge through by in social media and now then apter getting knowledge about green</p>

energy starting they have first Manufacturing start-up gerny through by all courses showcasing a strong academic foundation in business secoters.this extensive experience has equipped Mr.Sachin with indepth knowledge of international trade, market trends, and effective export strategies and connecting to globally and domestically specially Indian framers.an entrepreneur with extensive experience in the agriculture and export-import industry. the promoter has successfully run a business and over 10 years.Through this experience,we have gained valuable insights into the challenges and opportunities associated with managing agricultural waste and by-products.They have witnessed firsthand the significant amount of organic waste generated during the production,processing, and transportation of agricultural commodities, and the need for sustainable solutions to address this issue.Recognizing the potential of biogas technology to convert organic waste into renewable energy, we ventured into establishing Ruturaj Green Biofuel Plant Private Limited. The prior experience in the agriculture industry and understanding of the supply chain dynamics will prove advantageous in sourcing and managing the organic waste streams that serve as raw materials for the biogas plant.Moreover, the knowledge of international trade practices, market trends, and effective export strategies will be nstrumental in exploring potential markets for the company's biogas products, such as compressed natural.

**2)Director: Nitin V Kambale.**

B.E Digree Holder in Machnical Tools Design he is worked as a tools design Engineer in multiple tech. Industry in this sector and he has also complited advance tools design course in specialized tech industry from Hyderabad. and he is very strength and pashtionate in design work face the lot of challenge in this Sector and so both co-founders represent the inspiration behind "Ruturaj Green Biofuel Plant Pravite. Limited. a company founded on the values of family, purpose, and long-term impact. They symbolize the strength and belief that has guided the venture from its foundation in March 2024.