Biofics
YOUR SUSTAINABILITY PARTNER

PROJECT GUIDE

Bio-CBG Plant Complete Guide

Land, waste and investment for 3 to 15 TPD plants



Biofics multi-feed Bio-CBG plant, Surat

Shared by our presales team **for your general knowledge.** This is **not a quotation.**

PRESALES DESK
079-491-21151

Call now

32+	3 states	~15 mo
projects in progress	Gujarat, UP and MP	typical build from order

Dear Sir,

Thank you for your interest in setting up a Bio-CBG plant. Biofics plants are running in Surat, Rajkot, Shahjahanpur and Pilibhit.

This guide shows what a CBG project needs, so you can plan with confidence and decide your next step.

Your final proposal is prepared by our technical team after a detailed discussion of your site, waste and goals.



Biofics plant, Rajkot, Gujarat

Are you project-ready?

Funds, land and waste are must-haves. Power and water are planned alongside.

Funds

Your own investment for the plant size you want.

- [ ] I can arrange the funds-in-hand amount.

Land

A plot of the size shown in the Plant Ladder.

- [ ] I own or have identified the land.

Waste

A steady daily supply of feedstock, own or tied up.

- [ ] I have a reliable daily waste supply.

Power

Grid load as per size

Water

Fresh water daily

Find your plant size

Match the row to what you have.

	Land acres	Waste/day tonnes	Plant cost* ₹ Cr	Funds in hand* ₹ Cr
3 TPD	3 to 3.5	65 to 70	14 to 18	5 to 5.5
5 TPD	4 to 4.5	120 to 130	21 to 25	7 to 8
6 TPD	5	145 to 160	22 to 27	10 to 12
8** TPD	6.5	190 to 210	35 to 40	12 to 14
10** TPD	6.5 to 7	240 to 260	41 to 45	15 to 18
12** TPD	7 to 7.5	280 to 300	44 to 50	18 to 20
15** TPD	8 to 8.5	360 to 390	60 to 65	20 to 23

*** Multi-feed plants differ.** Figures are for standard feed (Napier grass and cow dung). Paddy straw, press mud and other agri residue need extra pretreatment, so cost and funds are higher.
** Indicative, confirmed on request.

Plant cost: Biofics scope, including approvals, process civil works, machinery and first-year operations. GST extra (about 12%). Land not included.

Funds in hand: your own investment. The balance is usually a bank term loan.

What can change your cost

The ladder is a starting point, not a final price. These six things move it.

1 Type of waste

Napier grass and cow dung is our base. Paddy straw, press mud and agri residue need extra crushing and pretreatment, which raises cost.

2 How you sell the gas

Pipeline injection costs about ₹1 to 1.5 Cr less than cascade supply. Cascade count depends on distance to the CNG station.

3 Your site

Soil, levelling, flood level and distance to power and water change civil cost. Final after the soil test and site survey.

4 Your own scope

Land, transformer, DG, roads, wall, lagoon, fire system and vehicles are arranged by you and are not in the plant cost.

5 Rules and compliance

The Gas Chromatograph now mandated by MoPNG is already included. A new rule can add equipment later.

6 Optional add-ons

Spares, extra cascades and special gas cleaning are priced only if your project needs them.

Power, water and people

What your plant needs to run every day.

	Power kWh/day	Transf. KVA	DG KVA	Water KL/day	Staff total
3 TPD	2,700	350	200	25 to 30	19 to 21
5 TPD	4,500	500	200	40 to 50	19 to 21
6 TPD	5,000	500	200	40 to 50	22 to 24
8 TPD	6,000	800	400	60 to 70	23 to 26
10 TPD	8,500	1,000	400	80 to 100	23 to 26
12 TPD	10,000	1,000	400	80 to 100	25 to 28
15 TPD	13,500	1,000	400	100 to 120	26 to 29

Staff = skilled operators plus support staff. Final figures are set at the detailed engineering stage and vary with your feedstock.

How a Biofics plant works


Biofics plant, Surat

1 Prepare
Waste is received, shredded and treated with our proprietary pretreatment for higher gas yield.

2 Digest
Sealed digesters convert the waste into raw biogas.

3 Purify
Our purification system upgrades it to high-quality bio-methane.

4 Deliver
Gas is filled into cascades for CNG stations, or injected into a city gas pipeline.

5 Earn twice
Leftover slurry becomes organic manure, a second income stream.

Who does what

Biofics delivers

- DPR for bank, subsidy and licences
- Approvals: Pollution Board, PESO, Fire, Groundwater
- Support for gas offtake (LOI)
- Layout and structural drawings
- Process civil works
- All machinery, installation, commissioning
- First-year operations and training

You arrange

- Land and land development
- Wall, roads, gate, lighting
- Power line, transformer, standby DG
- Water, storage, fire safety
- Site buildings and staff stay
- Feedstock supply and vehicles
- Project finance and bank processing

From order to gas

3 to 4 months
Approvals and licences

About 15 months from order
Civil works, machinery, installation, commissioning

Common questions

Is land included in the plant cost?

No. Land and site infrastructure are arranged by you.

Can I use my own type of waste?

Very likely. Our DPR prepares a feedstock plan for your waste. The waste type does change the cost.

Is there a government subsidy?

Eligible central and state schemes are mapped in your DPR, and our team supports the application.

Who buys the gas?

CNG stations and city gas networks. We support the offtake agreement.

Can I visit a running plant?

Yes. Visits are scheduled for promoters who have filled the Readiness Form.

Why is this not my final price?

Cost depends on your waste, site, offtake model and technical needs. Our technical team fixes it after the detailed discussion.

NEXT STEP

How we take it forward

Every Biofics proposal is built for one site.

1. **Readiness Form**
   Link shared on WhatsApp by our presales team.
2. **Technical meeting**
   Our project team studies your site and waste.
3. **Site visit**
   Feasibility check on your land.
4. **DPR**
   For bank, subsidy and licence work.
5. **Your proposal**
   Built for your exact requirement.

PRESALES DESK

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Tap to call

biofics.in

Please note: All figures are indicative and for general knowledge only. Actual cost, land, waste and funding needs depend on your feedstock, site, gas offtake model and technical requirements. They are final only in the detailed proposal from our technical team.

BIO-CBG Plant

Clean Energy Infrastructure

Biofics
YOUR SUSTAINABILITY PARTNER

32+ ongoing projects



Surat, Gujarat.
Operational with 5 TPD output
Powered by i-VPSA & Tri-Biomak Tech.



Shahjahanpur, UP.
Producing high-quality Bio-CBG & FOM
Automated Bio-CBG Plant by Biofocs Tech.



Rajkot, Gujarat.
Producing ~5 TPD Bio-CBG
Core tech systems installed.



Pilibhit, UP.
Producing high-quality Bio-CBG
Smart Bio-CBG Plant by Biofics



Mandsaur, MP.
Under commissioning phase
Final testing & system integration underway.



Sitapur,UP.
Under commissioning phase
Final testing & system integration underway.



Jamnagar, Gujarat.
Machinery Installation & Commissioning
Project Progressing Towards Completion



Kim,Gujarat.
70% civil work completed
Project execution in progress.

Scan to Explore More

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Access project insights, company information, and plant media through the QR codes below.

325 Days of Operation

Inside the real journey of a working 5 TPD Bio-CBG plant in Rajkot.



Rajkot Plant Walkthrough

View our key Bio-CBG projects, current progress, and operational highlights.



Future Of BioCBG

Watch plant overviews, podcast discussions, and project highlights.

