

COMPRESSED BIO GAS (CBG) PLANTS



#startupindia



OVERVIEW – CYRA ENGINES PVT. LTD.

Technology & EPC Solution Provider for CBG Plants

- ❖ Founder – CEPL.
- ❖ Alumni of NIIT Surat
- ❖ Academician turned entrepreneur with over 25+ years of experience
- ❖ Nominated for Indo German Young scientist award in the year 2010

DR. RAJESH C IYER



1. Developed world's first Most Fuel Efficient Dedicated CNG Engine
2. Dungarpur received the Best Award in Rajasthan from the Hon. President Shri. Ram Nath Kovind for Swachh Survection 2019.
3. Dungarpur city has received the best award for three consecutive years under the Swachh Bharat Mission.
4. Proud to set a 5 TPD benchmarks for which most of tenders are called for.
5. The Dungarpur model has been shortlisted by the MoHUA ,NITI Aayog & NGT for replication in 4000 cities across India

ACHIEVEMENTS



1. Developed the technology for the world's most Fuel Efficient Dedicated CNG Bike having a mileage of 120 km/kg of gas.
2. First company to launch dedicated gas genset running on natural gas, biogas and syngas fuel of small capacities in India
3. First of its kind bio-methanation plant of 5 TPD @ Dungarpur that treats MSW and all kinds of bio-degradable wastes
4. First of its kind bio-methanation plant on Napier Grass

PROTOTYPES DEVELOPED



1. Dungarpur Bio-Gas Plant: Innovative work in the FSM sector.
2. Project commissioned for 2.5 TPD CBG from Napier Grass in Bhavnagar.
3. Project commissioned for 10 TPD CBG from Napier Grass at Hisar (India's first and largest of its kind). Project is UNIDO interest subvention approved.

OVERVIEW OF EXPERIENCES



1. CEPL is a Startup India company with (DIPP 1122)
2. Company incubated under NRDC-subsidiary of DSIR
3. On official vendor list of IOCL, HPCL, GAIL for CBG Projects
4. Advisor for Canara Bank for CBG Projects

COMPANY



❑ **Dr. Rajesh C. Iyer : Founder, Director**

- Alumni of NIT Surat,
- Academician turned entrepreneur with over 25+ years of experience
- Nominated for Indo German Young scientist award in the year 2010

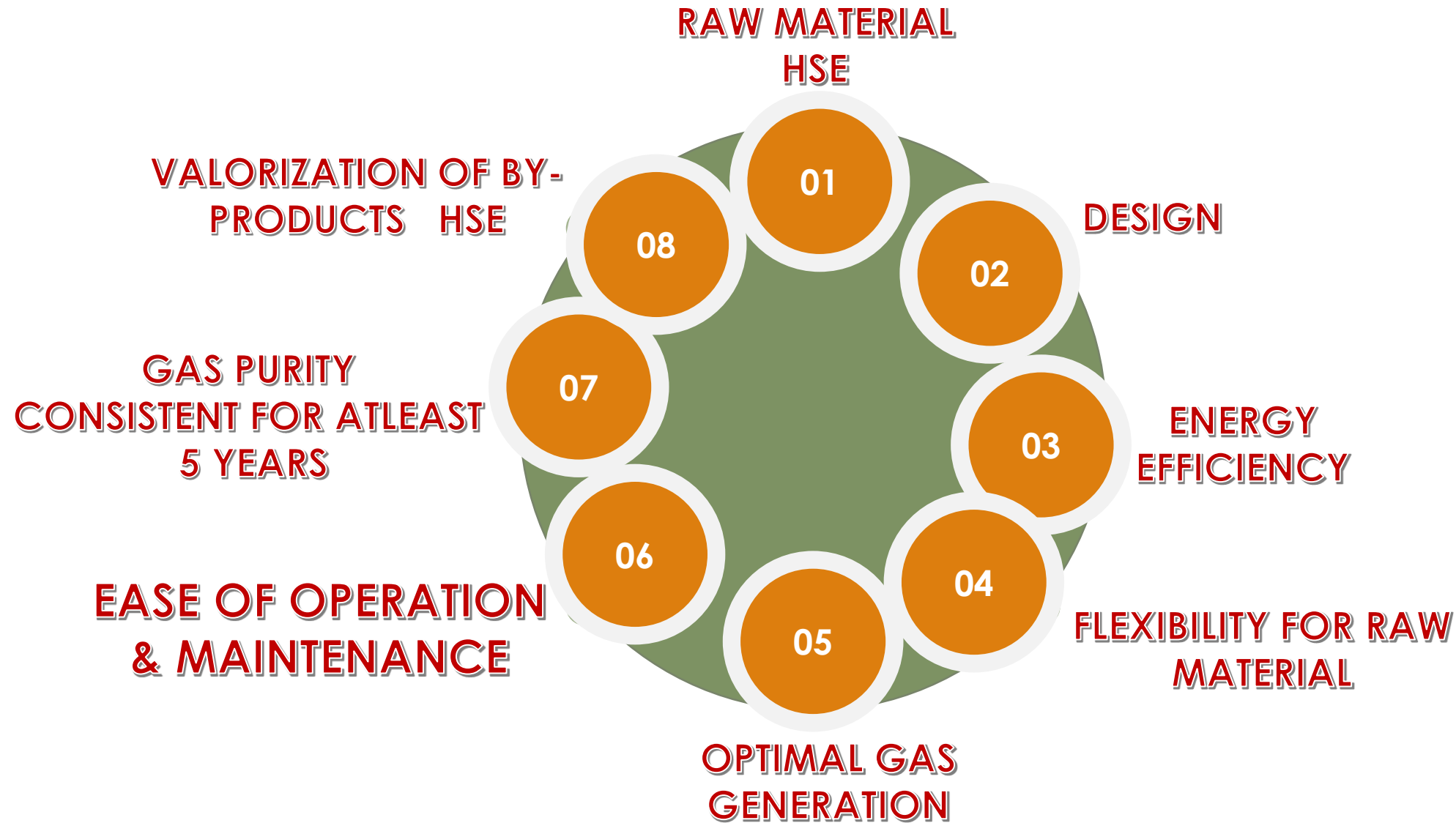
❑ **Ms. Srilakshmi Rajesh : Director**

- Architect and an IT Professional with over 20 years of experience into design , IT ,QA & QC

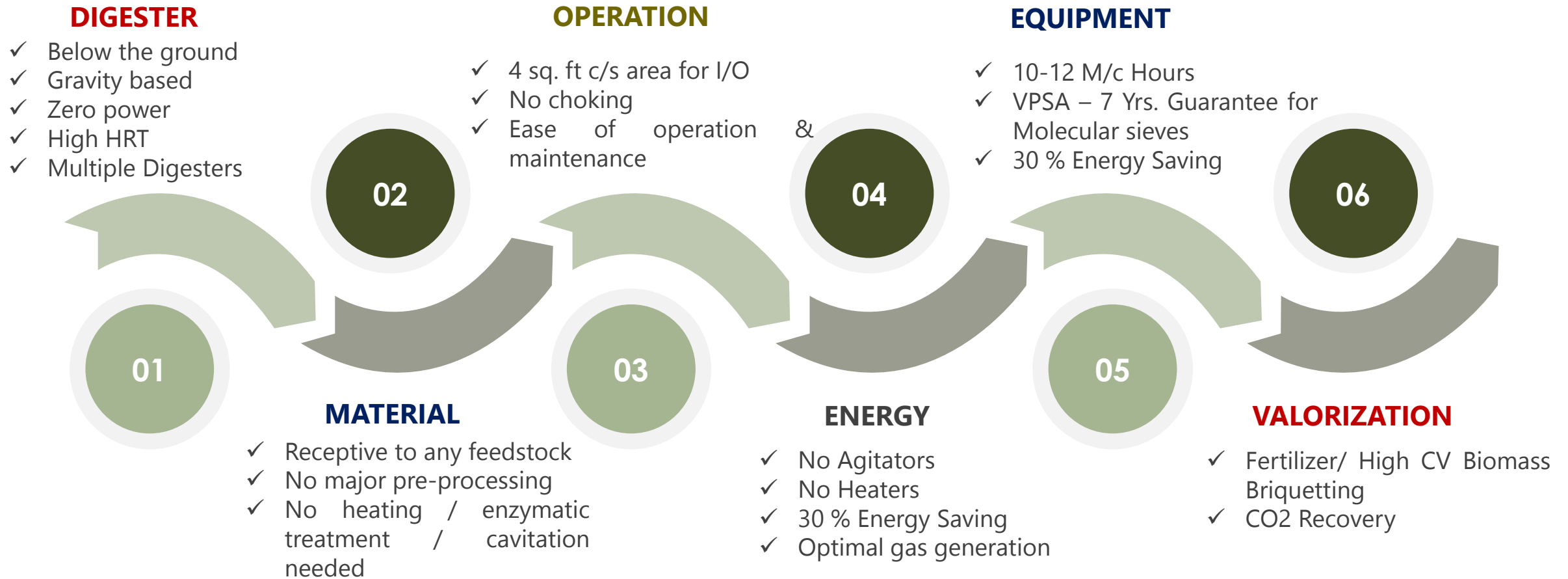
❑ **Dr. S. A Channiwala : Advisor**

- Alumni of IIT Mumbai,
- Ex-Director, Prof & Head Mech. Dept, NIT Surat
- Over 35+ years of experience in teaching, research and renewable energy
- Prestigious Dr. Swaroop Bhatnagar Awardee

KEY SUCCESS/RISK FACTORS FOR CBG PLANTS



OVERVIEW OF CEPL's AUGR TECHNOLOGY



BANKING ASSISTANCE



ROLES AND RESPONSIBILITIES

CEPL

- **DESIGN**
- **CONSTRUCTION**
- **INSTALLATION
COMMISSIONING
O&M**

Plant Site Photos (Sequence clockwise)



MSW Dumping



Waste Segregation



Wet Waste Crushing & Grinding



Organic Fertilizer Packaging



Vermicompost Shed



Biogas Plant



MEMORABILIA

NGT says Dungarpur model of waste management best, calls for replication

Deepak Maheshwari, chairman of the Rajasthan committee of NGT, said that despite being a small city, Dungarpur was found to be following all the rules laid out for solid waste management.

STATE

Rajasthan: Dungarpur on top in cleanliness drive; leaves Indore behind

Indore, which is the cleanest city of the country is down a notch from Dungarpur, making it a big achievement for Rajasthan. The city is now expected to bring pride to the state in the Swachh Survekshan 2019.

 Rimjhim Jethani | Updated: February 4, 2019 4:29 pm

<https://udaipurkiran.com> › dungarpur-model-included-i... ▼

Dungarpur model included in ULBs functioning guide-booklet ...

26-May-2021 — ... cattle waste and human waste to feed a **biogas plant** to produce electricity. In the Swachhta ranking survey 2020 **Dungarpur** had earned the ...

Amitabh Kant Retweeted



NITI Aayog @NITIAayog · Sep 21

.@finishprogramme & #RDOTrust have constructed a million toilets for underserved communities & successfully demonstrated co-composting fecal sludge recycling gas plant in Dungarpur

#NITIAayog acknowledges such low cost sustainable initiative & invites states to adopt such models



PMO India, Narendra Modi, Rajiv Kumar and 6 others





THE HIGHWAY TO A GREEN FUTURE
CLEAN ENERGY GREEN ENERGY