

BHARAT ENERGREEN

Bharat Energreen is pleased to submit our detailed **Techno-Commercial Proposal** for the establishment of a **Compressed Biogas (CBG) Plant** at your proposed site. As a leading **Engineering, Procurement and Construction (EPC)** company in the renewable energy sector, we specialize in delivering end-to-end solutions for CBG, Bio-CNG, waste-to-energy, and integrated biomass projects.

Our proposal outlines the complete engineering design, technology selection, process flow, equipment specifications, project execution methodology, commercial offer, and timeline. We have ensured that the solution is optimized for high plant efficiency, long-term reliability, and maximum gas yield based on the available feedstock.

Key Highlights of Our Offering:

- Proven and scalable CBG technology
- Complete EPC delivery with single-point responsibility
- Automation-enabled plant for higher operational efficiency
- Assurance of quality, safety, and regulatory compliance (MNRE/SATAT norms)
- Support for plant commissioning, training, and initial operational handholding

We are confident that Bharat Energreen's technical expertise, industry experience, and commitment to quality make us an ideal partner for delivering your CBG project successfully.

We request you to kindly review the attached techno-commercial dossier. Our team will be pleased to discuss the proposal in detail and participate in any technical or commercial clarifications required from your end.

Thank you for considering Bharat Energreen. We look forward to a long-term and mutually beneficial association.

Warm regards,
Bharat Energreen Team

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TECHNO-COMMERCIAL OFFER -5 TPD COMPRESSED BIOGAS PLANT				
Sr. no	Stages	Description	Amount	Phase
A	Registration	1. Application Form(Client Details Submission)	1,51,000	P1- Project Confirmation
		2. Feasibility Survey Assessment for Plant(Site Visit)		
		3. Technical and Commercial Viability Assessment Report		
		4. Project Viability Confirmation(Yes or No)		
B	Agreement	1. Signing EPC MOU for Project Development	20,00,000	P2- EPC & Buy-Back Agreement
		2. Technology Selection Report -As per FSR		
		3. Technical Specification Submission with Final Quotations		
		4. Signing Buy-Back Agreement for Gas Offset		
C	Project Planning , Design and Documentation	1. Detail Project Report(Technical , Financial and Economic aspects)	75,00,000	P3- Planning and Pre-Commissioning actions
		2. Detailed Plant Engineering(MEP,P&ID,Mass Flow)		
		3.CBG Production Projects, Revenue Forecasts , Financial Modeling and ROI analysis		
		4.Civil Structure Design and Soil Test		
		5. PESO Drawings and Documentations		
		6. Fire Safety Drawings and Documentations		
		7. Guidance on Obtaining Necessary NOCs.		
		8. Assistance with SATAT Registration and Compliance(if Applicable)		
		9.Financial Planning and Analysis Support		
		10. BMP Test (Bio-Methane Potential Test)		

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D	Equipment & Technology	1. Pre-treatment Technology as per Biomass(Feedstock)	7,20,00,000	P4- Equipment and Technology
		2. Automated Feeding and Hauling System for Smooth Plant Operations.		
		3.Hi-tech Slurry Transfer and Agitation Module as per Biomass(Feedstock)		
		4. Advance Temperature and Ph Control Unit		
		5. Efficient OLR Handling CSTR Unit		
		6. Advance Gas Storage Management with Real Time Volume Indicators		
		7. Automated Emergency Flare Unit		
		8. Automated Fire Safety Unit		
		9. Real Time Gas and Slurry Monitoring Panels		
		10.Biogas Up gradation Unit		
		11.Raw Gas Scrubbing Unit		
E	Civil Work	1. Pre-treatment Infrastructure	7,80,00,000	P5 -Civil Construction
		2. Mixing Tank, Water Tank, Slurry Tank and Intermediate Units		
		3. Digester Tank		
		4. Gas Control Room, Electrical Panel Room& Plant Monitoring Room		
		5. Slurry Lagoon.		

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F	Machinery Installation	1.Complete Plant Installations as per the design	7,82,34,100	P6 - Machine Installation
		2.Reactor Internal Equipment Installations(Heating System , Agitation, Sensors, Gas Holders and Others)		
		3.Pumps(Slurry Transfer and Recirculation)		
		4.Sensors(Flow meter, Analysers and Moisture Traps)		
		5.Gas Storage(Top and Ground Mounted)		
		6.Biogas scrubbing Unit		
		7. Biogas Up gradation Unit		
		8. CH4 Compression and Bottling Unit		
		9. CH4 CASCADES Storage Units		
		10.Fertiliser Separation and Packing unit		
		11.Other Relevant Equipment Installation(Piping ,Electrical etc)		
G	Commissioning	1. MEP Testing	12114900	P7 - Commissioning and Handover
		2.Gas Commissioning and Testing		
		3.Plant Stabilization		
		4.Biomass Feeding Plan		
		5.Setting Standard Operating Procedure		
		6.Compression and Bottling Trail		
		7. Fertilizer Separation and Packaging trail		
		8.Emergency Situation Drill Trail		
		9. All Equipment and Instruments Calibration		
		TOTAL INVESTMENT (INR)	250,000,000	
Above Mentioned Cost is Excluding applicable taxes.				

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H	Project Execution and Support	1. One Year Free Technical Support Post Commissioning
		2. Remote Monitoring and Troubleshooting Assistance
		3. Preventive Maintenance Schedules and Guidelines
		4. Assistance in Warranty Claims and Spare Part Arrangement



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		5. Plant Operations Assistance
I	Buy- Back Support	1. Guaranteed Buy Back Agreement for CBG(T&C Applies) 2.Comprehensive Training Module for Plant Staff 3.User Manual and Plant guidebook Preparation 4.Knowledge Transfer for Efficient Plant Management
	WHY JOIN BHARAT ENERGREEN	1.End to End Solution : Bharat Energreen Provides a complete solution from concept to commissioning and beyond 2. Technology Expertise: Focus on the advanced technology and its benefits (efficiency ,purity , reliability). 3. Operational Support : Highlight the training , Technical Support and Buy-Back Options 4. Commitment to Sustainability : Emphasize the environment benefits of CBG and Bharat Energreens Commitment to a Greener Future. 5. Quality Assurance and Compliance as per Standards

TERMS AND CONDITION

1. All freight charges of equipment transportation will be charged extra.
2. Price of machinery & equipment will increase / decrease as per market value.
3. All the payments must be DD/Cheque/Net Banking in Favour of Bharat Energreen Pvt. Ltd.

EXCLUSION

1. Land Leveling and Boundary of Premises.
2. Office rooms, Staff rooms, Toilets and Security room.
3. Electrical Connection, Transformer and Power-Line Setup
4. Generator Set
5. Transportation and Hauling Equipments
6. Internal road development, plant street lights and Beautification.
7. Applicable approval and NOCs.
8. Water boring/Connections.
9. Shed for All Equipments.
10. Foundation for Equipments
11. Plant & Equipment Security to be provided during construction phase.
12. Any other item not specifically mentioned above.

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PROJECT TIMELINES			
Stage	Title	Description	Timeframe(InDays)
1	Feasibility Survey Visit & Assessment	Site Visit	10 - 15 Days
		Assesment and Documentation	
2	Agreement and Documentation Phase	EPC MOU	50-65 Days
		DPR Preparation	
		PESO Drawings and Documentations	
		Soil Bearing Capacity Test	
		Structure Drawings Preparation	
		Bio-Methane Test	
		Mass Balance Sheet Preparation	
		Mechanical and Electrical Design	
		Equipment Specification Sheet as per design	
		ROI Sheet	
		Documentations of NOCs	
3	Financial Assistance	DPR Filing and Disbursement	25-30 Days
4	Project Construction Commissioning	Civil Work	180-200 Days
		Digester Tank	
		Mixing Tank	
		Control Rooms	
		Slurry Tanks	
5	Mechanical and Fabrication works	Others	45-60 Days
		Fabrication	
		Circumferencial Ladder and Platforms	
		SLS Platform	
		Flare Platform	
		Fire Safety Piping	
		Plant Nozzle and Valves Installation	
Plant External and Internal Piping			
6	Machine Installation	Installation of Pumps	60-70 Days
		Installation of Conveyor and Shredders	
		Installation of Top and Ground Mounted Balloon	
		Installation of Heating System	
		Installation of Agitation System	
		Installation of Flare Unit	
		Installation of Scrubbing and Upgradation Plant	
		Installation of Compressor Unit	
		Installation of Filling unit and Botteling Setup	
Installation of SLS			
7	Electrical and Instrumentation Connection	installation of Fertiliser Packging Unit	40-50 Days
		PLC Setup for Pumps	
		PLC Setup for Agitators	
		PLC Setup of Purification System	
		PLC Setup for Compressors	
		PLC Setup for SLS, Flare and Packing Units	
		Internal Connections of Machine	
		Flow Meters Installation	
Gas Monitoring and Analysers Installation			
8	Final Inspection and Testings	Sensors Calibraton and Setup	20-30 Days
		Pipe Check	
		Electrical and Electronic Equipment Check	
		Civil Structure Check	
9	Commissioning and Gas Trial	Machine First Run Check	90-100Days
		Overall Testing and Inspection	
		Start of Feeding	
		First Gas Trial	
		First Slurry Separation Trial	
		Overll operations Management and Check	520 -620 Days
		Staff Training and Handover	
		TOTAL TIMELINES	
			14- 16 Months

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