

File No.: VIS (2024-25)-PL783-707-974

Dated: 05.03.2025

TECHNO-ECONOMIC VIABILITY STUDY REPORT

OF

7,200 M3/DAY BIO GAS PRODUCING PLANT 2,500 KG PER DAY BIO CBG CAPACITY

SETUP BY

M/S BLUELEO ENERGY PRIVATE LIMITED

REPORT PREPARED FOR

- M/S BLUELEO ENERGY PVT LTD, VILLA-589, MY HOME ANKURA, TELLAPUR,

 Corporate Valuers
- RC PURAM, SANGAREDDY, TELLAPUR, MEDAK, RAMACHANDRAPURAM.
- Business/ Enterprise/ Equity Valuations
- TELANGANA, INDIA-502032
- Lender's Independent Engineers (LIE)
- Techno Economic Viability Consultants (TEV)
 Important In case of any query issue or escalation you may please contact Incident Manager
- Agency for Speciality Account Saving (AGA) We will appreciate your feedback in order to improve our services.
- Project Techno-Financial Advisors

 NOTE: As per IBIA Guidelines please provide your feedback on the report within 15 days of its submission after
- Chartered Engineers
- which report will be considered to be correct.
- Industry/Trade Rehabilitation Consultants
- NPA Management
- Panel Valuer & Techno Economic Consultants for PSU Banks

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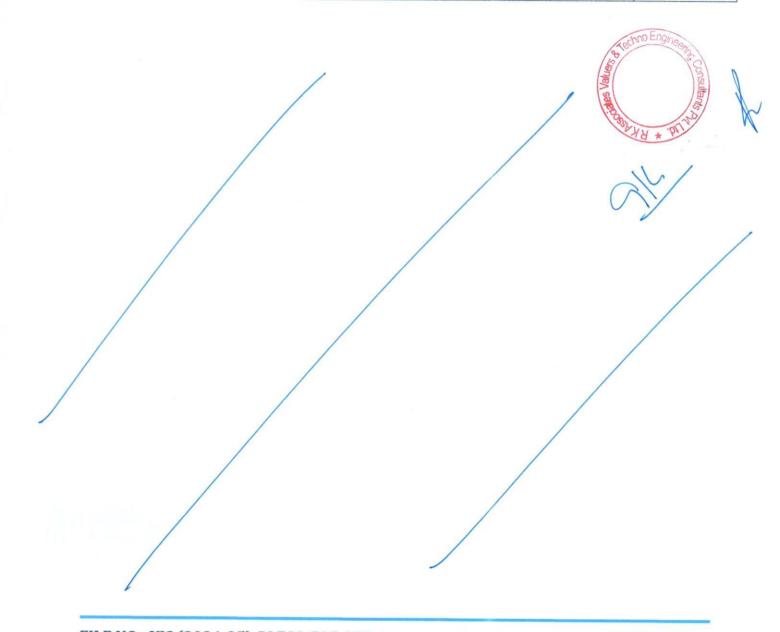
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PART A

REPORT SUMMARY

S. No.	PARTICULAR	DESCRIPTION
1.	Name of the	M/s Blueleo Energy Private Limited
	Company:	
2.	Registered Address:	Villa-589, My Home Ankura, Tellapur, Rc Puram,
		Sangareddy, Tellapur, Medak, Ramachandrapuram,
		Telangana, India-502032.
3.	Project Name	2,500 Kg per day Bio CNG generating plant.
4.	Project Location:	Survey No. 695/ port 696/port Village Kasala District
7.	1 Toject Location.	Survey No. 685/ part, 686/part, Village-Kasala, District: Sangareddy, Telangana
		Cangaready, relangana
5.	Project Type:	Bio CNG generating plant along with Biomass Pellets
		(Briquettes)
6.	Project Industry:	Renewable Energy
		and grant and an arrange
7.	Product Type /	Bio CNG and Biomass Pellets (Briquettes)
	Deliverables:	
8.	Report Prepared for	M/s Blueleo Energy Private Limited
	Organization:	
9.	TEV Consultant	M/s. R.K Associates Valuers & Techno Engineering
	Firm:	Consultants (P) Ltd.
10.	Report type:	Tachas Fassasia Vital III
10.	Report type:	Techno-Economic Viability Report
11.	Purpose of the	To assess Technical & Economic Viability for the purpose of
	Report:	seeking external financial assistance to start a green field
		Project.
12.	Scope of the Report:	To assess, evaluate & comment on Technical, Economical
		& Commercial Viability of the Project as per data information
		provided by the client, independent Industry research and
		data/ information available on public domain.

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13.	Date of Report:	5 th March 2025			
14.	Documents referred	A. PROJECT INITIATION DOCUMENTS:			
	for the Project:	Project Report			
		Financial Projections of the Project			
		Project Proposed Schedule			
		Statutory Approval Details			
		B. PROCUREMENT DOCUMENTS:			
		 List of Plant & Machinery along with acquisition 			
		costs for the same			
		2. Process Flow Chart			
		Lease/Sale deeds of the Land			
		LOI with IOCL			
		5. Agreement with Raw Material Supplier			
		C. STATUTORY APPROVALS, LICENCES & NOCs			
		a. NALA Conversion			
		b. LOI with IOCL			
		c. MOA and AOA of the company			
		d. GST Certificate			
15.	Means of Finance:	Equity & Debt (D/E Ratio 2.33 TPC)			
16.	Key Financial	Key Indicators Value			
	Indicators:	Average DSCR 5.60			
		Average EBITDA Margin 62.88%			
		Avg. PAT Margin 39.13%			
		NPV & IRR INR 15.81 Cr. & 46.69%			
		Payback Period 2.96 years			

Note: Above financial indicators are based on the financial projections of the proposed project provided by the firm and assessment and analysis of the same done by us.





PART B

INTRODUCTION

ABOUT THE REPORT:

This is a Techno-Economic Viability Study Report of the proposed compressed biogas plant (Bio-CNG, 2,500 kg/day) at Survey No. 685/ part, 686/part, Village-Kasala, District: Sangareddy, Telangana, setup by M/s Blueleo Energy Private Limited.

2. EXECUTIVE SUMMARY:

M/s Blueleo Energy Private Limited, established on 21st August 2023 under the Company's Act, 2013 as per the certificate of incorporation shared by the client for the establishment of Waste to Energy Management based on the waste and residual organic substances from Urban, Industrial and Agricultural activities of Rural INDIA, such as Municipal Waste, Farm Residue, Vegetable Food Waste, Cattle Dung, Sugarcane Press mud, Napier Grass etc.,

The company have conceived this Project to reap out the growing demand of Bio-CNG in the transport sector due to the phased mandatory blending of compressed biogas (CBG) in compressed natural gas (CNG) which has been announced by the Government of India in the recent Interim budget of FY 2024-25. The subject project is part of the Govt. initiative "Swachh Bharat Abhiyan" and for providing green energy.

Ministry of Petroleum & Natural Gas, Government of India (MoP&NG), in furtherance of guidelines dated 03.02.2014 and 20.08.2014 (as amended), has vide letters No. L-16022/05/2020-GP-I (E-35118) dated 09.04.2021, 26.10.2021 and 26.10.2023 issued policy guidelines for synchronisation of CBG produced by plants under SATAT scheme in the CGD network wherein GAIL has been mandated to operationalise the CBG-CGD Synchronisation Scheme and supply Biogas/CBG co-mingled with domestic gas at Uniform Base Price (UBP) to CGD entities for use in CNG (T) &and PNG (D) segments of CGD network. Moreover, the government has a set a target of 5% FY28-29, following a carrot-and-stick approach to incentivize CGD company to offtake biogas.

M/s Blueleo Energy Private Limited has proposed to set up this Greenfield project at Kasala, Sangareddy in Telangana, for the production of 2,500 Kg (7,200 M3)/ Day of Bio-CNG (compressed biogas) along with 12 Ton/day of Biomass Pellets (Briquettes) which will be sold as value added by-products. The Bio-CNG plant is proposed to be setup with total investment of INR 8.37 Crores.

	Proposed Biogas Plan	t Capacity	Techno Enginee
Sr. No.	PARTICUALR	Capacity	Unit
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1	Biogas Plant Generation	7,200	M3/Day
2	Bio-CNG Plant Capacity	2,500	kg/Day
3	Biomass Pellets (Briquettes) Capacity	12,000	Kg/day

Source: DPR/data/information provided by the company

The project will benefit from a new mandate from the Indian government, Compressed Biogas Blending Obligation (CBO), which requires 5% of all compressed natural gas ("CNG") in City Gas Distribution networks ("CGD") to be Compressed biogas ("CBG"). The government is also aiming to increase the quantity of natural gas in its energy mix up to 15% by 2030, and the natural gas price is regulated by a gap and collar, with CBG sold at a premium above the natural gas price.

For the sale of the produced CBG, the company has already secured a purchase agreement/ LOI from Indian Oil Corporation limited under SATAT initiative to promote Compressed Bio-Gas as an alternative, green transport fuel. (Ref No.: Indian Oil/SATAT/01/3961 Date: 01.01.2025).

The project is proposed to be commissioned based on the KVIC Floating Dome Model with Thermophilic bio-methanation technology, which will be a semi-automatic. As per the information shared by the company, they have planned to execute the project on their own as the company has successfully developed an 80 Kg Bio-CNG Plant for R&D purposes in the state of Telangana.

The plant will use approximately 18,000 tons of Napier Grass – contributing to wealth generation for the local community while at the same time being a part of the solution to the problems of import dependence for India's energy needs. For the procurement of the Raw Material, the company has signed a long-term supply agreement with Mr. G. Vijay Bhashkar Reddy (Individual Farmer) on 6th April 2024 to supply atleast 50 ton of Napier Grass per day.

As per the data/information provided by the client/Company, the layout plan is under preparation at the time of preparation of this report. We recommend the bank/financial institution to procure the approved layout plan from the company before disbursement of the loan.

As shown in the below table, the cost of the proposed project from scratch to trial run is being estimated as INR 8.37 Crores, which is proposed to be funded through Promotor's Fourity of INR 0.01 Crore, Unsecured Loan from promoters of INR 2.50 Crores and bank loan of INR 5.86 Crores. Project cost breakup is shown in later section of the report.

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As per the lease deed shared by the client/company, the promoters have leased a total of 2 Acre and 22 Guntas (~2.5 Acres) of land through two separate leases of adjoining land at Survey No. 685/ part, 686/part, Village-Kasala, District: Sangareddy, Telangana. This land has been leased out in the name of the company for 15 years with an option of with an option of renewal at the end of lease as per the shared lease deed executed on 23rd September 2024, for setting up the proposed Bio-CNG plant.

As per the information shared by the client/company, due to the presence of a high-tension electricity line over a portion of the land, the Nala conversion for the proposed Bio-CNG plant has been approved by the Tahsildar, Hathnoora Mandal, District Sangareddy, on February 21, 2025, for a total area of 2 Acres and 14 Guntas out of the total land parcel of 2 Acres and 22 Guntas.

As per data/information provided to us, the company has yet to obtain Statutory Approvals/NOC's such as Pollution Certificate, PESO, Sanctioned Map approval, Fire NOC etc. from the respective authorities, which will be applied in a single-window clearance system (TS-IPASS) as per Telangana State. (Refer the section Statutory Approval in the later part of the report).

During the site visit, we found that the proposed land is a vacant land which is not demarcated and work on the Project has not been started yet. As per informed by client, land development work will start soon. (*Kindly refer the site pictures captured during the survey attached in the later section of the report*).

The plant needs about 200 KVA of power and 100 KL/ day of water to meet process energy requirement. Currently, the company is in the process to apply for power load connection and ground water extraction approval. Company has planned to achieve the C.O.D by 1st October 2025.

At present, the company is in discussion with multiple financial institutions to fund the project through a term loan of INR 5.86 crores. In this regard M/s Blueleo Energy Private Limited has appointed R.K. associates to assess the Techno-Economic Viability of the proposed Bio-CNG production plant at Survey No. 685/ part, 686/part, Village-Kasala, District: Sangareddy, Telangana. The company plans to achieve loan approval by March 2025 and the financial closure by April, 2025 (expected).

3. PURPOSE OF THE REPORT:

To assess Project's Technical and Financial Feasibility for lender's requirement.





4. SCOPE OF THE REPORT:

To only assess, evaluate & comment on Technical & Financial Feasibility of the proposed Bio-CNG generating plant being set up by M/s Blueleo Energy Private Limited as per the information provided by the company.

NOTES:

- Project status is taken as per the Site inspection carried out by our survey team.
- Scrutiny about the company, background check, and credibility, credit worthiness of the company or its promoters is out-of-scope of this report.
- Any verification of the documents/ information from originals/ source is out-of-scope of this report.
- This report is only an opinion in respect to Technical and Financial Feasibility of the project as per the future Projections provided by the firm and independent analysis done by us and doesn't contains any recommendations including taking decision on the loan or any other financial exposure.
- This is not an audit activity of any kind. We have relied upon the data/ information shared by the company in good faith.
- Detailed cost estimation or detailed cost vetting is out of scope of the project.
- This is not a Detailed Project Report or a detailed design or architecture document. Land
 and property details mentioned in the report is only for illustration purpose as per the
 information provided to us by the client. The same doesn't tantamount for taking any
 responsibility regarding its legality, ownership and conforming to statutory norms.
- Any review of the existing business of the promoters is out of scope of this report.

5. METHODOLOGY/ MODEL ADOPTED:

- Data/ Information collection.
- Review of Data/ Information collected related to TEV study.
- Independent review & assessment of technology used and financial projections provided by the company.
- d. Projections of Revenue, P&L, Balance Sheet, Working Capital Schedule, Depreciation Schedule, Loan Schedule as per the inputs given by the company and assessed by us
- e. Calculation of key financial indicators and ratio analysis including DSCR, NPV & IRR and payback period of the project.
- Report compilation and Final conclusion.

6. DATA/ INFORMATION RECEIVED FROM:

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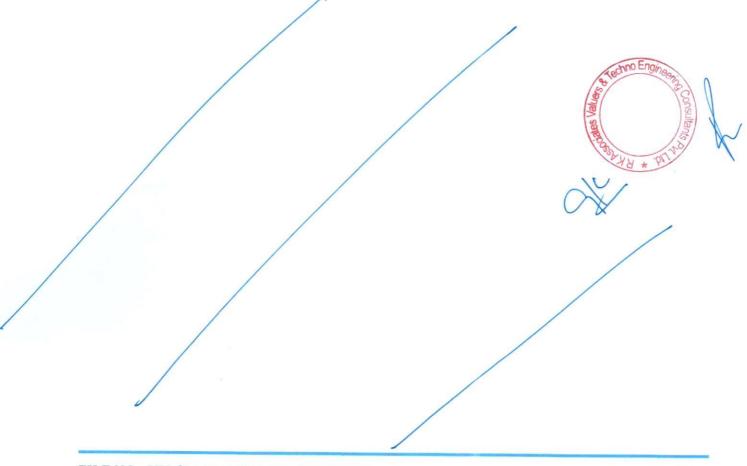


All the data/Information has been received from Mr. Nanin Kumar and the required details about him shown in the below table:

Particulars	Details		
Designation	Additional Director		
Company	Blueleo Energy Private Limited		
Email Address	nanin@blueleo.in		
Contact No.	+91-9381564886		

7. DOCUMENTS / DATA REFFERED:

- a. Detailed Project Report and Promoters Profile.
- b. Financial Projections of the proposed Bio CNG generating project.
- c. Product profile along with Pricing Strategy etc.
- d. Long term Raw Material Supply agreement with Mr. G. Vijay Bhashkar Reddy (Individual Farmer)
- e. Individual Farmer.
- f. LOI with the OMC
- g. Sale/Lease deed of the land.
- h. Survey Report conducted at the site.







PART C

COMPANY PROFILE

1. COMPANY OVERVIEW:

As per certificate of incorporation shared by the client/company, M/s Blueleo Energy Private Limited was incorporated on August 21, 2023 as per the Companies Act, 2013 as an unlisted company limited by shares. The company is registered as a Private Limited Company in the state of Telangana. The registered office is located at Villa-589, My Home Ankura, Tellapur, RC puram, Sangareddy, Tellapur, Medak, Ramachandrapuram, Telangana, India- 502032. Below table shows the incorporation details of the company:

	Incorporation Details of the Company
Particular	Description
Company Name	M/s Blueleo Energy Private Limited
Date of Incorporation	21st August 2023
CIN	U20111TS2023PTC176291
Company Category	Company limited by Shares
Company Subcategory	Non-government company
ROC	Hyderabad
Registered Address	Villa-589, My Home Ankura, Tellapur, RC puram, Sangareddy, Tellapur, Medak, Ramachandrapuram, Telangana, India-502032.
Authorized Capital	INR 15,00,000/-
Paid up Capital	INR 1,00,000/-
Date of Last AGM	30/09/2024
Date of Balance Sheet	31/03/2024

Source: As per the data shared by the client and available on the MCA website

In this company, the promoters have proposed to setup 2,500 Kg/ day of Bio-CNG (compressed biogas) along with 12,000 TPD of Biomass Pellets (Briquettes).

2. SHAREHOLDING DETAILS:

As per the data available on MCA website, the company is having authorised capital is INR 15,00,000 and the paid-up capital is INR 1,00,000 on the date of last balance sheet dated 31.03.2024. The shareholding details of the company is mentioned below:

S. No. Nature of Shareholders No. of Shares % Holding

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	TOTAL	10,000	100.00%
4	Gorrepati Narasimha Rao	1,000	10.00%
3	Uday Kiran Gorrepati	3,000	30.00%
2	Devulapally Aditya Narasimha Revanth	3,000	30.00%
1	Nanin Kumar Gorrepati	3,000	30.00%

Source: Data/Information provided by the client.

3. KEY PROMOTER'S/DIRECTORS PROFILE:

Mr. Gorrepati Narasimha Rao, Mr. Nanin Kumar Gorrepati, Mr. Udaykiran Gorrepati and Mr. Devulapally Aditya Narasimha Revanth are the directors of M/s Blueleo Energy Private Limited as per information available on MCA. As per data/information provided by the client about the promoters & directors, below table illustrate the educational & professional experience of the promoters:

		(A) Directors/	Promoters Deta	ils		
S. No.	Name		DIN	Age	Designation	
1.	Mr. Gorren	ati Narasimha Rao	07672946	61	Additional	
	The series of th		070725.0	01	Director	
2.	Mr. Nanin	Kumar Gorrepati	10402279	34	Additional	
					Director	
3.	Mr. Udayki	ran Gorrepati	10773607	38	Additional	
	•	•			Director	
4.		pally Aditya Narasimha	08822707	27	Director	
	Revanth		S. Section Street, Str	Carrier Carrie		
	(B) Educati					
		W 10	ional Director on 11 th September 2024.			
Mr. Gor		As per the data shared by the client, Mr. Gorrepati Narasimha Rao				
Narasim	ha Rao	has over 35 years of experience in Agri-related fertilizer, Market yard				
		business, Granite Indu	istries, Real esta	te etc.		
		 Appointed as Addition 	Appointed as Additional Director on 11 th September 2024.			
Mr. Nan	in Kumar	As per the data shared by the client, Mr. Nanin Kumar Gorrepati is a				
Gorrepa	ti	B. Tech Graduate and has over 7 years of experience in Railway				
Correput		works, Real estate, N	Marketing & Bra	nd Building, e		
		involved in the CBG in	dustry for the pa	st 1 year.	A Techno Engineen	
Mr. Uda	ykiran	 Appointed as Addition 	al Director on 11	L th September		
					>	

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Gorrepati	 As per the data shared by the client, Mr. Udaykiran Gorrepati is a B. Tech Graduate and has over 10 years of experience in Roadways, Railway works, Real estate, Supply chain Management, etc.
Mr. Devulapally Aditya Narasimha Revanth	 Appointed as Director on 21st August 2023. As per the data shared by the client, Mr. Devulapally Aditya Narasimha Revanth is a B. Tech Graduate and has a 5 years' experience in biogas field.

Source: Data/ Information provided by the company

Below tables shows the information of the companies/LLPs with which each Director is associated with to give a basic background detail of the promoters as found on public domain in general/ tertiary category research.

(MR. GORREPATI NARASIMHA RAO; DIN: 07672946)

S. No	Company Name (CIN/FCRN)	Designation	Original Date of Appointment	Date Of Appointment at Current Designation	Date of Cessation
1	Blueleo Energy Private Limited (U20111TS2023PTC176291)	Additional Director	11/09/2024	11/09/2024	-
2	Nidhinikshepa Chits Private Limited (U65999TG2016PTC113548)	Director	20/12/2016	20/12/2016	-

Source: Information extracted from MCA website & public domain

(MR. NANIN KUMAR GORREPATI: DIN: 10402279)

S. No	Company Name (CIN/FCRN)	Designation	Original Date of Appointment	Date Of Appointment at Current Designation	Date of Cessation
1	Blueleo Energy Private Limited (U20111TS2023PTC176291)	Additional Director	11/09/2024	11/09/2024	-
2	Nidhinikshepa Chits Private Limited (U65999TG2016PTC113548)	Director	20/12/2016	20/12/2016	-
3	Smartgo Prop LLP (ACK-1123)	Designated Partner	-	25/10/2024	-
4	Sai Tharj Infra LLP (ACJ-3060)	Designated Partner	-	04/09/2024	-

Source: Information extracted from MCA website & public domain

(MR. UDAYKIRAN GORREPATI; DIN: 10773607)

S. No	Company Name (CIN/FCRN)	Designation	Original Date of Appointment	Date Of Appointment at Current	Date of the Cessation
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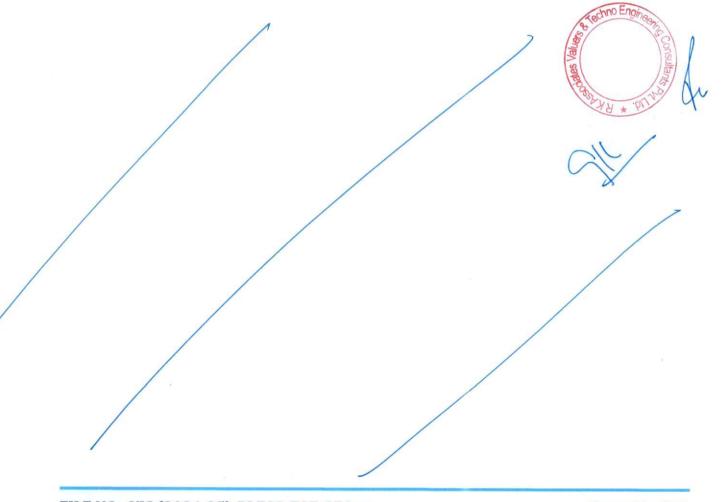
				Designation	
1	Blueleo Energy Private Limited	Additional	11/09/2024	11/09/2024	
	(U20111TS2023PTC176291)	Director	11/03/2024	11/03/2024	-

Source: Information extracted from MCA website & public domain

(MR. DEVULAPALLY ADITYA NARASIMHA REVANTH; DIN: 08822707)

S. No	Company Name (CIN/FCRN)	Designation	Original Date of Appointment	Date Of Appointment at Current Designation	Date of Cessation
1	Blueleo Energy Private Limited (U20111TS2023PTC176291)	Director	21/08/2023	21/08/2023	-
2	Competence Centre for Renewable Energy Innovations and Applied Sciences (U74999TG2017NPL113966)	Director	12/12/2021	12/12/2021	-
3	Bia Green Private Limited (U40106CH2022PTC044255)	Director	-	17/03/2022	12/12/2024
4	RABL Energy (India) Private Limited (U11100HR2021PTC094058)	Director	-	26/03/2021	29/01/2024

Source: Information extracted from MCA website & public domain







PART D

PROPOSED INFRASTRUCTURE DETAILS

1. PROPOSED PLANT LOCATION:

The proposed Bio-CNG generating plant will be set up by M/s Blueleo Energy Private Limited at Survey No. 685/ part, 686/part, Village-Kasala, District: Sangareddy, Telangana, setup by M/s Blueleo Energy Private Limited, which is spread over an area of 2 Acres and 22 Guntas (i.e., ~2.52 Acres) as per both the lease deeds provided to us by the company.

The location of the plant is in the well-known agricultural area of Telangana, where accessibility of agricultural land for cultivating the Napier Grass is sufficient. Availability of the required raw material is the advantage of the proposed location as many agricultural farms are situated near by the proposed site location.

During the site visit we found that the property is merged with adjacent plots and not demarcated till the date of survey done by us. The property is having the proximity to the civic amenities such as hospital is situated ~14 km away, school is situated ~6 km away and market is situated ~6 km away from the proposed plant location.

Table: 1 is showing the details of the adjoining properties of the land for proposed CBG plant and Table: 2 is showing the Connectivity Details of the Proposed Location:

Table: 1 Adjoining Property Details				
Location Details				
East	Vacant Agricultural Land			
West	Mud Road (Current Entry Point)			
North	Vacant Agricultural Land (Proposed Entry Point)			
South	Vacant Agricultural Land			

Table	Table: 2 Connectivity Details of the Proposed Location				
Connectivity	Details				
Road	Sangareddy-Narsapur Road - ~5.4 km away				
Rail	Nagalapalli Railway Station - ~44.5 km away				
Airport	Rajiv Gandhi International Airport - ~76.6 km away				

2. LOCATION MAP:

a) Google Map Location: The Bio-CNG plant is proposed to be commissioned at Survey No. 685/ part, 686/part, Village-Kasala, District: Sangareddy, Telangana with GPS

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coordinates 17°42'32.4" North and 78°09'52.6" East as per the Google map attached below:



b) Google Map Layout: Demarcation of the land with approximate measurement on the Google map is attached in the below picture:









3. LAYOUT PLAN:

As per the data/information provided by the client/Company, the layout plan is under preparation at the time of preparation of this report. We recommend the bank/financial institution to procure the approved layout plan from the company before disbursement of the loan.

4. LAND DETAILS:

As per the lease deeds shared by the client/company, the promoters have leased 2 Acres and 22 Guntas (i.e., ~2.52 Acres) at Survey No. 685/ part, 686/part, Village-Kasala, District: Sangareddy, Telangana. This land has been leased out in the name of the company for 15 years with an option of with an option of renewal at the end of lease as per the shared lease deed executed on 23rd September 2024, for setting up the proposed Bio-CNG plant.

As per the information shared by the client/company, due to the presence of a high-tension electricity line over a portion of the land, the Nala conversion for the proposed Bio-CNG plant has been approved by the Tahsildar, Hathnoora Mandal, District Sangareddy, on February 21, 2025, for a total area of 2 Acres and 14 Guntas out of the total land parcel of 2 Acres and 22 Guntas.

During the site visit on 1st March 2025, we found it as a vacant land which was merged with the adjacent plots. The current access to the property is from the west side via a kuccha road approximately 12-15 feet wide. As per the company's information, a new entry is proposed from the north side of the property. However, during the site visit, we found that the property doesn't have access route from the north side. The company is actively engaging with landowners to secure a passageway by leasing the land between the project site and the approach road, which is approximately 455 meters away. At the time of site visit, we found that the proposed land is not demarcated and work on the Project has not been started yet. As per informed by client, land development work will start soon.

5. SITE PICTURES:

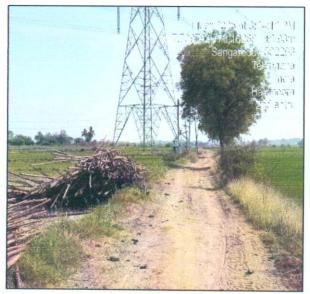
Site pictures were captured during the site survey on 1st March 2025, for reference few of the pictures are attached below:

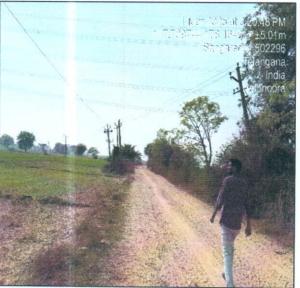
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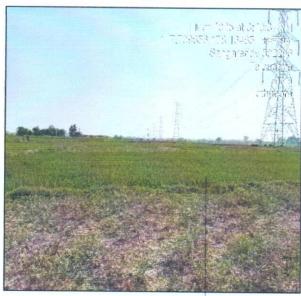
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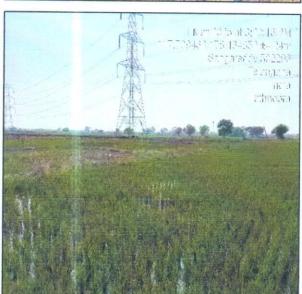


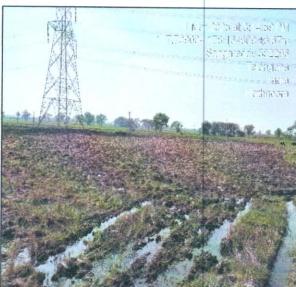


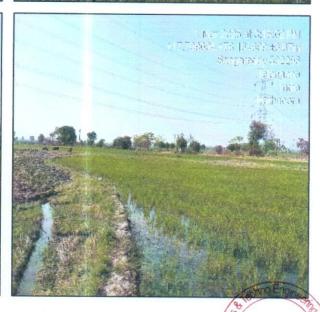










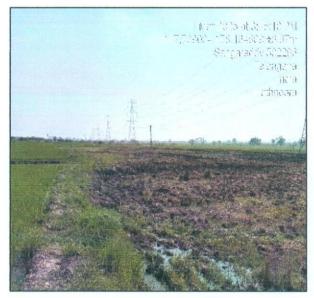


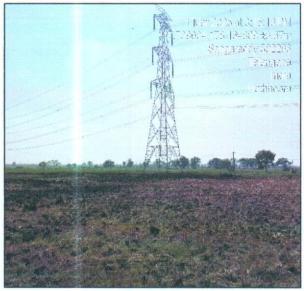
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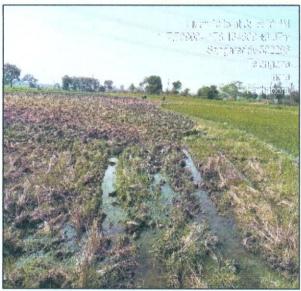
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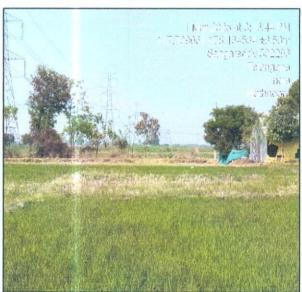


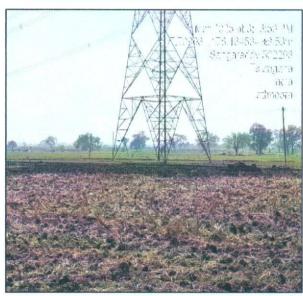
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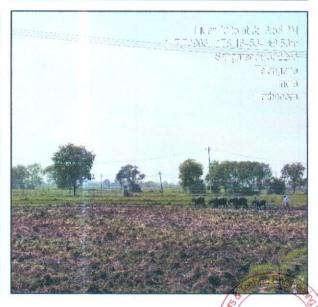








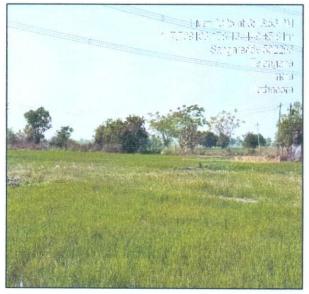


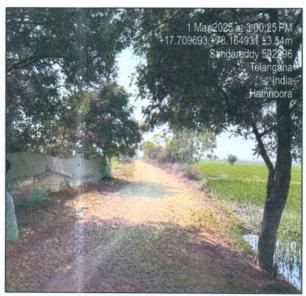


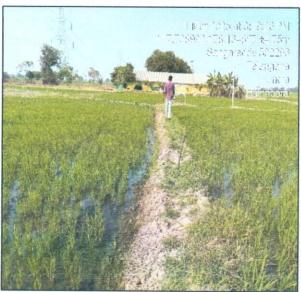
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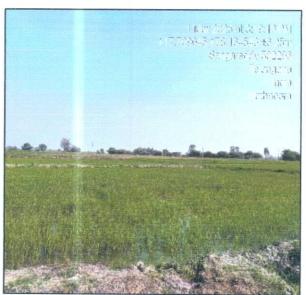












6. BUILDING & CIVIL WORKS:

The Bio-CNG generating facility is proposed to be commissioned by the company itself. Detailed bifurcation of the scope of work for the proposed Building & Civil works alongwith the cost has been shown in the below table:

S. No.	Item	Specifications	Expected Landing Price
1	Water Storage Tank	20K LITERS, 5 RS PER LITER, 500 LPM WATER PUMP	1,56,000
2	Sheds (Feed Preparation)	2500 SFT 4 SIDE OPEN SHED	5,20,000
3	Pre-Treatment Chamber	600 M3 VOLUME, 230MM BRICK WALL	3,74,400
4	Excavation	HITACHI 200 & JCB FOR LEASE	20,80,000
5	Digesters	2400 M3 *3 DIGESTERS	1,30,28,080
6	Digester In & Out Piping	CEMENT PIPES FOR DIGESTERS 24 INCH DIA	5,19,480

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7	Effluent Tanks	600 M3 VOLUME	3,74,400
8	Shed (Gas Upgradation)	5000 SFT 4 SIDE OPEN	10,40,000
9	Solid Liquid Separator Foundation	CONCRETE FOUNDATION - 8*4*3 FEET	2,07,917
10	Briquettes Foundation	13*4*6* FEET DEEP CONCRETE	3,12,000
11	Liquid Storage Pit	300 M3 BRICKLESS POND TYPE PIT	3,10,149
12	Shed (Effluent Handling)	1500 SFT 4 SIDE OPEN	3,12,000
13	Pulveriser Foundation		1,06,080
14	HDPE Piping		3,39,976
15	Mixing Chamber		3,74,400
16	Weighing Bridge		2,37,120
17	HT Line		25,00,000
18	Compound Works		13,00,000
19	Land Levelling		1,50,000
20	Approach Road Repair		3,00,000
21	Pre- Fab Office Container		3,50,000
22	Office Buildings		5,00,000
23	Labour Colony		10,00,000
		TOTAL	2,63,92,002

Source: Data/Information provided by the client.

According to the details received by us, the estimated cost for Building & Civil works is approximately **INR 2.64 crores**, inclusive of applicable GST.

7. PLANT & MACHINERY/ EQUIPMENTS DETAILS:

As per the data/information shared by the client/company, the company is expected to execute the development of the plant (engineering, procurement, installation & commissioning), all the machines/equipments would be directly procured by the Developer. Detailed bifurcation of the proposed Plant & Machinery as shared by the client/company has been shown in the below table along with the estimated cost:

S. NO.	ITEM	TOTAL AMOUNT	VENDOR DETAILS	SPECIFICATIONS	EXPECTED LANDING PRICE
1	Crop Harvester	54,00,000	YLP Tractors	5 MT/ HOUR, 50 HP, NEW HOLAND MAKE	56,16,000
2	Pulveriser	6,98,000	Sana Industries	40 HP, 3MT/HR, 3 MM PARTICULATE SIZE	7,25,920
3	Slurry Pumps	12,33,000	Sujal Engineering	637 M3/HR, 75 HP, 100 M HORIZOTAL HEAD	12,82,320
4	Mixing Chamber	1,40,000	Self-Execution	600 M3 VOLUME WITH 5 HP AGITATOR	1,45,600
5	Conveyer System	5,00,000	Self-Execution	5 HP SCREW CONVEYOR	5,20,000
6	HDPE Piping	2,73,100	Nagarjuna Polymers	700 MTR LENGTH, 160 MM DIA, PN6	2,84,024
7	Misc	5,00,000	Self-Execution	UN PLANNED IN SEGMENT	5,20,000

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			TOTAL		5,12,27,845
27	Briquettes Machine	28,00,000	Sree Engineering Works	90MM, 1500 KG/HR, 75 HP	29,12,000
26	Solid Liquid Separator	5,50,000	Vrinda Industries	1 MT/HR CAPACITY, 7.5 HP	5,72,000
25	Misc	10,00,000	Self-Execution	UN PLANNED IN SEGMENT	10,40,000
24	Cascades	36,00,000	Balaji Enterprises	3000 WATER LITERS	37,44,000
23	250 Bar Compressor	74,00,000	Industrial Compressors and Cryo Pumps Limited	250 KG / SQ CM, 125 M3 /HR FLOW RATE	76,96,000
22	Odoriser Tank	1,20,000	Self-Execution	MERCEPTAN BASED CHEMICAL DOPER	1,24,800
21	Gas Analyzer	12,00,000	Diya Techno Solutions	PRE AND POST ONLINE CH4, CO2 VOLUME ANALYZER	12,48,000
20	Misc.	10,00,000	Self-Execution	UN PLANNED IN SEGMENT	10,40,000
19	Fire Suppression System	5,00,000	Ss Enterprises	10 KG ABC MODULAR TYPE	5,20,000
18	Electrical Panels	8,00,000	Self-Execution	MACHINERY CONTROLLERS	8,32,000
17	Automation	7,00,000	Self-Execution	PLANT AUTOMATION	7,28,000
16	Eps System	32,00,000	Self-Execution	500 M3 /HR	33,28,000
15	Amine Scrubbing System	36,00,000	Self-Execution	500 M3/HR MEA BASED C02 ABSORBER	37,44,000
14	Water Scrubbing System	6,45,000	Self-Execution	500 M3/HR WATER BASED	6,70,800
13	H2s Removal System	1,75,000	Self-Execution	FERROUS OXIDE BASED	1,82,000
12	Limit Switches & Valves	2,00,000	Self-Execution	FLOATING TYPE WITH RELAY MODULE	2,08,000
11	Recirculation Pumps	7,50,000	Sujal Engineering	100 M3/HR, 15 HP, 25M HEAD	7,80,000
10	Biogas Piping	2,00,000	Self-Execution	GI/ MS PIPING	2,08,000
9	Domes	1,16,01,443	Self-Execution	9.2 RADIUS, 3 MM SHEET THICKNESS	1,20,65,501
8	Weighing Bridge	4,72,000	VSM Industries (Weitrans)	40 MT, 7.5*3 METERS IN SIZE	4,90,880

Source: Data/information provided by the client.

The cost of Plant & Machinery has been considered as per the data/information shared by the client/company. The estimated cost for plant & machinery will be ~INR 5.12 crores including GST.

8. UTILITIES: Details of Water, Electricity and other utilities are described as below:

a. WATER:

During the site inspection, we have found that the underground water is available at the project site. Company has yet to take the "No Objection Certificate" for groundwater

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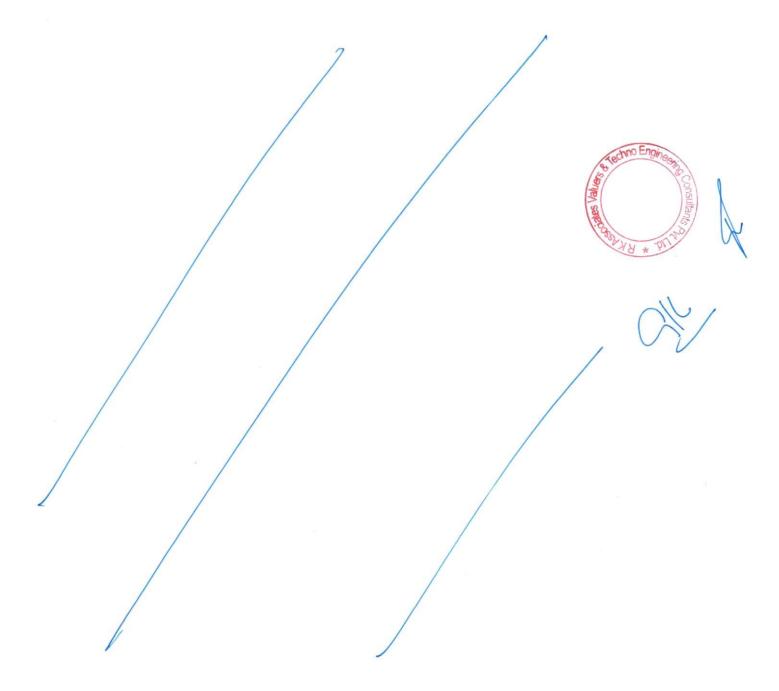




extraction from the concerned authorities. Water facilities from Manjira River via pipeline is also available which is just ~700 m from the project site. The total requirement of the plant will be ~100 KL per day.

b. ELECTRICITY:

As per the data/information provided to us by the client, Company is yet to apply for sanction of power load of 200 KVA. The estimated power requirement would be ~1624.8 Kwh per day to run the plant.







PART E

PROJECT TECHNICAL DETAILS

CAPACITY OF THE PROPOSED BIO-CNG UNIT:

This Bio-CNG generating plant is proposed to be set up with a designed raw biogas generation capacity of 7,200 M3/Day to generate the 2,500 kg/day Bio-CNG along with 12,000 Kg/Day of Biomass Pellets (Briquettes) as illustrated in the below table:

Capacity of the proposed Bio-CNG plant				
Particular	Capacity			
Raw Biogas Plant Generation	7,200 M3/Day			
Bio-CNG Plant Capacity	2,500 kg/Day			
Biomass Pellets (Briquettes) Capacity	12,000 Kg/Day			

Source: Data/information provided by the client.

2. PRODUCTION PROCESS OF BIO CNG (CBG):

Biogas is commercially produced by a process called anaerobic digestion. The process involves breakdown of organic waste materials such as animal waste, food waste and industrial sludge to produce biogas and digestate. The latter is further treated to be used as a fertilizer. Anaerobic digestion process is carried out in a sealed, oxygen-free tank, also called an anaerobic digester.

The KVIC Floating Dome Model is a time-tested and widely adopted biogas technology designed for decentralized energy production. When integrated with thermophilic biomethanation technology, it significantly enhances biogas yield, digestion efficiency, and process stability. The key stages of the process are as follows:

1. Feedstock Preparation and Loading

- The primary feedstock, such as Napier grass, agricultural residues, and organic waste, is chopped into smaller pieces to increase surface area and improve digestion.
- The prepared biomass is mixed with water or recycled digestate to form a homogeneous slurry before being fed into the digester.

2. Anaerobic Digestion in KVIC Floating Dome Digester

 The slurry enters the KVIC Floating Dome Digester, a sealed chamber where thermophilic bacteria break down organic matter in an oxygen-free environment.

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- The process operates at an optimal temperature of 50-55°C, maintained using heat recovery systems or external heating mechanisms, ensuring rapid microbial activity and enhanced biogas production.
- The floating gas holder dome moves up and down based on gas accumulation, automatically regulating pressure and ensuring a steady gas supply.

3. Biogas Purification & Upgrading Process

Step 1: Hydrogen Sulfide (H₂S) Removal

- Method: Iron-based scrubbers or activated carbon filters.
- Efficiency: Reduces H₂S to <20 ppm.

Step 2: Water Scrubbing (CO₂ & Impurities Removal)

- Process: High-pressure water absorption removes CO₂ and other contaminants.
- Efficiency: Lowers CO₂ levels to ~10%.

Step 3: Amine Scrubbing (Further CO₂ Reduction)

- Technology: Uses proprietary amine solutions for selective CO₂ removal.
- Efficiency: Achieves CO₂ levels ≤ 3%.

Step 4: Proprietary Biogas Upgrading Technology

- Custom-designed process for final methane enhancement.
- Enhances methane content to ≥ 93% with improved calorific value.
- Ensures Bio-CNG meets IS 16087:2016 standards for automotive and industrial use

4. Gas Collection and Storage

- The generated biogas (primarily methane and CO₂) is collected within the floating dome, allowing easy extraction and utilization.
- The gas is then purified using an Electro dialysis purification system or other upgrading technologies to separate biomethane from CO₂ and impurities.
- The purified biomethane is compressed to 250 bar for storage and distribution in Cascaded high-pressure vessels and supplied to CNG outlets.

5. Effluent Treatment and Nutrient Recovery

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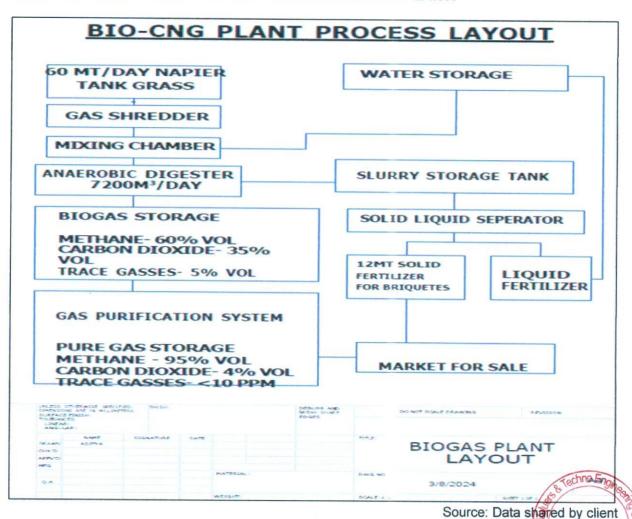
- The remaining digestate undergoes solid-liquid separation, where:
 - Liquid effluent is aerated and reused for irrigation in Napier farms, enriching soil fertility.
 - Solid residues are solar-dried and processed into briquettes, serving as a renewable biomass fuel.

6. Sustainable Utilization and Zero-Waste Approach

- The KVIC model ensures zero waste discharge, as all by-products, including biogas, organic fertilizers, and briquettes, are fully utilized.
- The closed-loop system enhances resource efficiency, reduces dependence on fossil fuels, and promotes environmentally sustainable energy production.

By integrating the KVIC Floating Dome Model with thermophilic bio-methanation technology, biogas production becomes more efficient, cost-effective, and environmentally friendly, making it an ideal choice for rural energy solutions and decentralized waste management.

3. PROCESS FLOW CHART OF THE PROPOSED BIO-CNG PLANT:



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4. TECHNICAL SPECIFICATIONS OF THE PROPOSED BIO-CNG PLANT:

As per the data/information provided by the client, below table shows the technical specification of the proposed Bio CBG generating plant:

A. Feed Preparation:

S. NO.	ITEM	DESCRIPTION
1	Crop Harvester	10MT/HR
2	Pulveriser	6 MT/HR
3	Slurry Pumps	1200 M3/HR
4	Water Storage Tank	20K Litres, 500 LPM Water Pump
5	Mixing Chamber	600 M³ Volume
6	Conveyer System	Screw Conveyer
7	HDPE Piping	700 MTR
8	Weighing Bridge	40 TONS CAPACITY

B. Biogas Portion

S.NO	ITEM	DESCRIPTION	
1	Pre- Treatment Chamber	600 M3	
2	Digesters	7200 M3	
3	Domes	3 NOS	
4	In & Out Piping	Cement Pipes	
5	Effluent Tanks	600M3	
6	Biogas Piping	MS / GI Piping	
7 Recirculation Pumps		100 M3 /HR	
8	Limit Switches & Valves	LPS	

C. Gas Upgradation:

S.NO	ITEM	DESCRIPTION
1	H2S Removal System	Ferrous Oxide Based
2	Water Scrubbing System	500 M3/HR
3	Amine Scrubbing System	500 M3/HR
4	EPS System	250 M3/HR
5	Fire Suppression System	C02 /Water Based

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D. Gas Bottling & Storage

.NO ITEM		DESCRIPTION	
1	Odorizer Tank	Mercaptan Based	
2	250 Bar Compressor	250 M3/HR * 2 Units	
3	Cascades	3* 3000 Water Litres	

E. Effluent Handling

S.NO	ITEM	DESCRIPTION	
1	Solid Liquid Separator	1 MT /HR	
2 Briquette Machine		1.5 MT/HR	

5. TECHNOLOGY USED:

The project is proposed to be commissioned based on the KVIC Floating Dome Model with Thermophilic bio-methanation technology, which will be a semi-automatic. As per the information shared by the company, they have planned to execute the project on their own as the company has successfully developed a 80 Kg Bio-CNG Plant for R&D purposes in the state of Telangana.

PROPOSED TECHNOLOGY:

The Khadi and Village Industries Commission (KVIC) Floating Dome Digester is a proven and widely adopted biogas technology in India, particularly for decentralized biogas production. It offers a cost-effective and efficient solution for sustainable energy generation. When combined with thermophilic bio-methanation, it offers higher efficiency, reduced retention time, and increased gas yield compared to conventional mesophilic digesters.

KEY FEATURES:

- Floating Dome Design: The gas holder (dome) moves vertically based on gas production, ensuring automatic pressure regulation and efficient gas collection.
- Optimized Temperature Control: A built-in temperature regulation system maintains ideal digestion conditions, enhancing microbial activity and ensuring consistent gas production.
- Slurry Recirculation System: Integrated pumps continuously recirculate slurry, preventing sediment buildup at the bottom and reducing manual desilting efforts.

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- Rotating Dome with Welded Paddles: Designed to enable manual slurry mixing at intervals, eliminating the need for expensive mechanical agitators while ensuring uniform digestion.
- Scum Prevention Mechanism: Regular mixing prevents scum formation, avoiding blockages that could hinder gas release and system efficiency.
- Energy-Efficient Operation: The absence of mechanical agitators minimizes electricity consumption, maintenance costs, and operational complexities.
- High Gas Yield & Efficiency: Optimized slurry mixing enhances the digestion process, ensuring continuous and increased biogas production.
- Simplicity & Cost-Effectiveness: The model is easy to construct, operate, and maintain, making it ideal for reliable, breakdown-free applications in both rural and urban settings.

The KVIC Floating Dome Model with Thermophilic Bio-Methanation Technology is a costeffective, high-efficiency solution for CBG production. It is best suited for agro-waste-based biogas plants where simplicity, affordability, and sustainability are key considerations.

6. LATEST TECHNOLOGY/TECHNOLOGICAL ASSESSMENT:

The KVIC Floating Dome Model with Thermophilic Bio-Methanation Technology is a cost-effective and reliable approach for CBG production, particularly suited for small to medium-scale operations. Compared to modern technologies like Continuous Stirred-Tank Reactors (CSTR), Plug Flow Digesters, and Dry Anaerobic Digestion, the KVIC model offers lower capital and operational costs, simplicity in design, and minimal mechanical components, making it ideal for rural and decentralized applications. The following table compares KVIC technology with some of the latest CBG production technologies:

Parameter	KVIC Floating Dome Model (Thermophilic Bio-Methanation)	CSTR (Continuous Stirred-Tank Reactor)	Plug Flow Digester	Dry Anaerobic Digestion
Process Type	Semi-continuous batch digestion	Continuous digestion with stirring	Continuous flow process	Batch-wise solid- state digestion
Temperature Range	Thermophilic (50- 55°C)	Mesophilic (35- 40°C) or Thermophilic (50- 55°C)	Mesophilic (35- 40°C)	Thermophilic (50- 55°C) Techno En

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TECHNO-ECONOMIC VIABILITY REPORT

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M/S BLUELEO ENERGY PRIVATE LIMITED

Feedstock Suitability	Best for Napier grass, cattle dung, agro-waste	Flexible – food waste, agro-waste, MSW, industrial waste	Suitable for fibrous biomass (agro-waste, Napier grass)	Best for high-solid feedstocks (organic MSW, agro- residues)
Gas Holder Mechanism	that moves based external gas storage		Fixed dome	No dome; gas extracted through pipes
Gas Yield Efficiency	Moderate (~50- 60% CH₄ content before purification)	High (~60-70% CH ₄ content before purification) Moderate (~55-65% CH ₄ content before purification)		High (~65-75% CH₄ content before purification)
Hydraulic Retention Time (HRT)	~20-25 days	~15-25 days	~25-30 days	~25-30 days
Capital Cost	Low (~INR 3-5 Crore per ton CBG capacity)	High (~INR 5-7 Crore per ton CBG capacity)	Moderate (~INR 4-6 Crore per ton CBG capacity)	High (~INR 6-8 Crore per ton CBG capacity)
Operational Complexity	Low (Simple design, manual mixing)	Moderate-High (Requires mechanical stirring and process control)	Moderate (Minimal mechanical mixing)	High (Advanced process control required)
Scalability	Small to medium- scale	Large-scale (Industrial applications)	Medium to large-scale	Large-scale (Industrial applications)
Slurry Management	Requires separation for liquid fertilizer and briquettes	Advanced solid- liquid separation systems	Similar to KVIC model	Produces dry digestate, easier handling
Automation	Low (manual mixing and gas collection)	High (automated feeding, gas upgrading)	Moderate (semi- automated)	High (fully automated with controlled process conditions)
Best Use Case	Rural biogas plants, community-scale projects	Large-scale CBG plants, industrial setups	Dairy farms, sugar mills, agro-based industries	MSW-based biogas plants, high-solid waste processing

The choice of technology depends on the feedstock availability, project scale, investment capacity, and operational complexity. The KVIC Floating Dome Model remains a viable choice for low-cost and small-to-medium-scale CBG production, whereas CSTR and dry digestion technologies are preferred for industrial-scale CBG plants with higher efficiencies and automation levels.

Based on the above technical assessment, M/s Blueleo Energy Pvt Ltd has opted for a traditional yet well-recognized technology that is currently in use in the market. The

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chosen technology appears suitable for the intended operations, and the plant is expected to function effectively. While the specifications align with the requirements for smooth operation and scalability, the overall performance will depend on factors such as operational efficiency, maintenance, and feedstock management.

7. EFFLUENT TREATMENT AND ABETMENT:

The effluent treatment process in a Napier grass-based biogas plant incorporates an efficient solid-liquid separation system, utilizing decanters or screw presses to optimize resource recovery. The liquid effluent undergoes aeration before being repurposed for irrigation in Napier farms, contributing to nutrient recycling and sustainable agricultural practices. Meanwhile, the separated solids are subjected to solar drying, allowing for natural moisture evaporation. Once adequately dried, these solids are further processed into briquettes, serving as an environmentally friendly alternative fuel source. This zero-waste approach maximizes both energy recovery and soil enrichment, reinforcing a circular economy within the biogas production cycle.

8. TESTING STANDARDS FOR PRODUCTION:

In India, the testing standards for Compressed Biogas (CBG) are primarily governed by the Bureau of Indian Standards (BIS), Ministry of New and Renewable Energy (MNRE), and other regulatory bodies. The key standard for CBG is IS 16087:2016, which specifies the quality requirements for biogas used as a fuel. Below are the main parameters and standards applicable to CBG in India:

Bio-CNG:

- Gas Composition Analysis: Methane (≥ 93%), CO₂ (< 4%), H₂S (< 50 ppm) as per IS 16087:2016.
- Calorific Value Testing: Should meet 52,000-55,000 kJ/kg for vehicular and industrial use.
- Moisture & Impurity Removal: Compliance with ISO 15403-1 for pipeline injection and engine safety.
- Compression & Storage: PESO-approved cylinder pressure testing and safety standards.

Briquettes:

Moisture Content: Should be below 10% for optimal combustion efficiency.

2. Calorific Value: Typically 3,500-4,500 kcal/kg, tested per ASTM D5865.

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- 3. Ash Content & Density: Should meet BIS 13574:2021 for biomass briquettes.
- Durability & Strength: Drop test and compressive strength evaluation for transport stability.

As per communicated by client, company will be having a quality control Laboratory, wherein, they check the entire range on defined parameters like design, quality and finish. The unit is proposed to be equipped with all the essential tools, machine, and technology in order to ensure the production quality as per the standard benchmark.

MANPOWER:

As per information shared by the client/.company, an estimate of manpower requirement allowing for leave, absentecism, sickness and holidays for smooth and for efficient operation of different sections of the plant including its administrative and commercial departments, has been prepared based on technical and management ground primarly to indicate the order of manpower requirement.

In estimating the manpower requirement, a proper ratio between the administrative, managerial, supervisory and shop foor staff has been maintained with a view to affording proper industrial and professional management at various levels. The basic structure of the manpower will require the following kind of resources to opearte the plant 24*7 for 300 days a year:

Proposed Manpower details along with Cost (INR)					
Type of personnel	Quantity	Type of skill	Average Monthly Salary		
Plant Manager	1	High Skilled	50,000		
Accountant	1	Skilled	25,000		
Supervisor	1	Semi-Skilled	20,000		
Pulveriser operator	2	Semi-skilled	20,000		
Weighing bridge operator	2	Semi-skilled	20,000		
Feeding operator	1	Semi-skilled	18,000		
Un skilled helper	2	Unskilled	15,000		
EPS operator	1	Skilled	25,000		
Electrician	2	Skilled	20,000		
Input material handling labour	2	Unskilled	15,000		
Briquets handing labour	2	Unskilled	15,000		
Un skilled material loaders	2	Unskilled	15,000		
Other Sub Staff	2	Unskilled	15,000 schno En		

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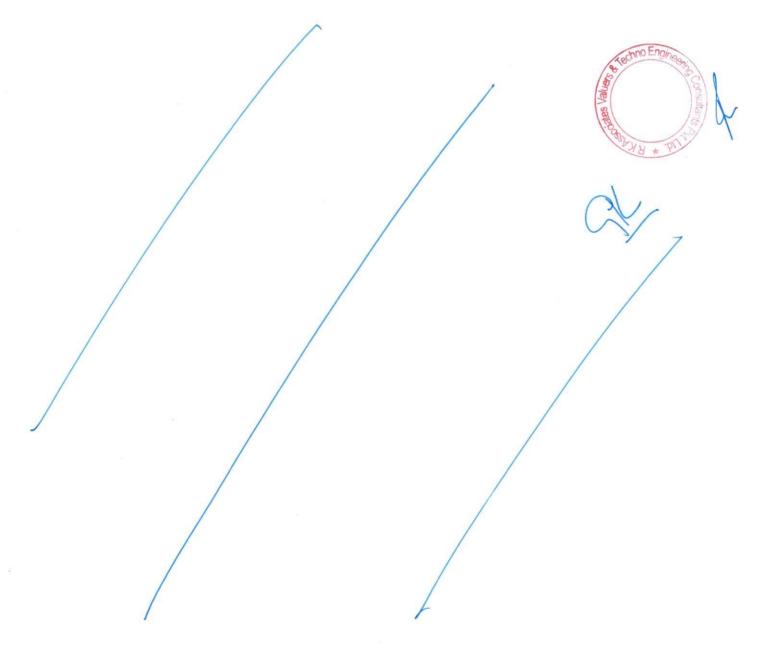


Total 21

Source: Data/information provided by the client.

Company has proposed to deploy 21 human resources initially, which comes out with 8.5 workers per ton for the proposed Bio-CNG generating plant which is in permissible range as per the standard benchmark of the industry.

(Ref: https://pib.gov.in/PressReleasePage.aspx?PRID=1868887) The Sangrur CBG Plant shall provide direct employment to 390 and indirect employment to 585 people. This is a 33TPD capcity plant, thus it comes out with ~12 workers per ton.







PART F

PRODUCT PROFILE

1. INTRODUCTION:

CBG has calorific value and other properties similar to CNG and hence can be utilized as green renewable automotive fuel. Thus it can replace CNG in automotive, industrial and commercial areas. Ministry of Road Transport and Highways, Government of India had permitted usage of bio-compressed natural gas (bio- CNG) for motor vehicles as an alternate composition of the compressed natural gas (CNG).

The compressed biogas, or Bio-CNG, is likely to play a crucial role in promoting India's transition to a sustainable energy ecosystem. Bio-CNG is a green renewable automobile fuel with calorific value and other qualities similar to compressed natural gas (CNG).

2. PRODUCT CATEGORY:

a) BIO CNG:

The proposed plant will be generating 2,500 Kg/ day of Bio-CNG which has a gross calorific value of \sim 52,000 kJ/kg (12,400 kcal/kg). Methane is the most valuable component under the aspect of using biogas as a fuel; the other components do not contribute to the calorific value and thus are "washed out" in the purification plants in order to obtain a gas with almost \geq 93% CH₄. Methane is the flammable compound in biogas. Composition of the purified Bio-CNG has been shown in the below table:

Ingredient	Value
Methane (CH₄)	≥ 93%
Carbon Dioxide (CO ₂)	≤ 3%
Hydrogen Sulfide (H₂S)	< 20 ppm
Oxygen (O ₂)	< 0.5%
Nitrogen (N₂)	< 1%
Moisture Content	< 0.015 g/m ³

Source: Data/information provided by the client.

Bio-CNG, a clean and renewable fuel, has vast potential in India. It can be a supplement to petroleum products, if used in compressed form in the cylinders. Biogas originates from bacteria in the process of biodegradation of organic material under anaerobic conditions.

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Bio CNG is having the applicability in various Industries and used as Automobiles Fuel. It is capable to be used in Canteens, Restaurant, Hotels, Sweet shop, Dhabas etc.

Equivalent Quantity Of Fuel For 1 Cu M Of Biogas		
Equivalent	Value	
Biogas	1.00 M³	
Kerosene	0.620 Liter	
Fire wood	3.474 Kg	
Charcoal	1.458 Kg	
Butane	0.433 Kg	
LPG	0.456 Kg	
Electricity	1.5 Kwh	

As per the data shared by the client, the produced CBG will have a calorific value of approximately 52,000 kJ/kg (12,400 kcal/kg), ensuring significant energy output per unit mass. With a density of around 0.72 kg/m³, the gas maintains an efficient combustion profile. For storage and transportation, the gas is typically compressed to a pressure range of 200-250 bar, facilitating safe and efficient handling. Additionally, the Wobbe Index falls within the range of 45-52 MJ/m³, indicating high interchangeability with other fuel gases without requiring major equipment modifications. The flame temperature reaches approximately 1,960°C, ensuring efficient thermal energy utilization in various industrial and commercial applications.

b) BIOMASS PELLETS (BRIQUETTES):

The plant has a capacity to produce 12,000 Kg/ day of Biomass Pellets (Briquettes). The material drawn from the digester is called sludge, or effluent., which is rich in nutrients (ammonia, phosphorus, potassium, and more than a dozen trace elements) and is an excellent soil conditioner.

Quality of Briquettes: Briquettes derived from organic biomass offer high calorific value and energy efficiency, making them an eco-friendly and sustainable alternative to conventional fossil fuels. These briquettes have a Carbon-to-Nitrogen (C:N) ratio between 12:1 to 16:1, ensuring optimal combustion properties and minimal emissions. They are a rich source of carbon, which enhances burning efficiency and heat output.

Elemental Com	position of Briquettes
Calcium (Ca)	1-3 %

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Carbon (C)	35-50%
Magnesium (Mg)	0.2-1.5%
Sulphur (S)	0.2-1%
Nitrogen (N)	1.5-4%
Phosphorous (P)	0.5-2%
Potassium (K)	1-5%

One ton of briquettes provides a higher energy yield compared to traditional firewood or coal, making them a cost-effective and sustainable fuel alternative. The presence of microelements such as zinc (Zn), copper (Cu), and manganese (Mn) in the original biomass material remains in the briquette ash, which can be reused as a soil enhancer for agricultural purposes.

Briquettes are widely used as a renewable fuel in industrial, commercial, and domestic applications due to their high energy density and low ash content.

Application of organic manure			
Application	Usage (Kg/Unit)	Time of application	
Industrial Boilers & Power Plants	400-800 Kg/Unit	Continuous Feed	
Domestic Heating (Stoves & Fireplaces)	5-10 Kg per Use	As Required	
Commercial Cooking & Food Processing	200-400 Kg/Day	Based on Demand	
Brick Kilns & Other Industrial Uses	Bulk Supply	Continuous Feed	

To maintain the efficiency of briquettes, proper storage is crucial. They should be kept in a dry and well-ventilated area to prevent moisture absorption, which could reduce their burning efficiency. Storing them in covered stacks ensures a longer shelf life and optimal thermal performance for diverse energy applications.

3. PRICING STRATEGY:

As per the data/information provided by the client, LLP has already signed a LOI with Indian Oil Corporation Ltd on 1st January 2025. (*Ref No. - Indian Oil/SATAT/01/3961*). The current selling rate of CNG at OMC outlets in Hyderabad, Telangana is around INR 96.00/kg. (*https://www.goodreturns.in/cng-price-in-hyderabad.html/*), however the procurement price of Bio-CNG from Indian Oil as per the SATAT Scheme is around @INR 74.29 per kg without GST. "CBG Pricing Circular- SATAT Scheme" is attached below for reference:

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TECHNO-ECONOMIC VIABILITY REPORT

M/S BLUELEO ENERGY PRIVATE LIMITED





इंडियन ऑयल कॉर्पोरेशन लिमिटेड

कॉर्पोरेट कार्यालय: स्कोप कॉम्प्लेक्स कोर-2 7. इंस्टिट्यूशनल एरिया, लोधी रोड, नई दिल्ली-110 003

Indian Oil Corporation Limited

Corporate Office: SCOPE Complex, Core-2 7, Institutional Area, Lodhi Road, New Delhi-110 003

Website: www.locl.com

कॉर्पोरेट कार्यालय Corporate Office

Ref: CO/AE&SD/01 Date: 20.05.2022

To

Stakeholders of SATAT Scheme

Sub: Purchase price of Compressed Bio-Gas (CBG) under SATAT scheme

You are kindly aware that, 'SATAT' (Sustainable Alternative Towards Affordable Transportation) scheme on CBG was launched on 1.10.2018. As per the scheme, procurement price of CBG purified as per IS 16087: 2016 standards, compressed at 250 bar pressure and delivered to OMC Retail Outlets in cascades (up to 25 km one way distance from CBG Plant) was fixed at Rs. 46/kg + applicable taxes for period from 1.10.2018 to 31,3.2024. It was also informed that minimum procurement price will not be lower than Rs. 46/kg + applicable taxes up to 31.3.2029.

To facilitate entrepreneurs for financial closure of the projects as well as promote setting up of CBG Plants, it has been decided that the CBG prices shall be indexed to the prevalent Retail Selling Price (RSP) of CNG in the market (or CBG RSP for markets where CNG is not available).

Accordingly, the following revised procurement pricing of CBG shall be implemented:-

- The minimum procurement price of CBG will not be lower than Rs. 46/kg + applicable taxes for the period up to 31.3.2029.
- The Retail Selling Price of CBG in a market shall be at par with RSP of CNG (as provided by the authorized CGD entity).
- 3.0 The following slabs for CBG procurement price have been decided, which will be the procurement price of CBG delivered at IndianOil Retail Outlet situated at any distance (up to 75 km one way) as per IS 16087 2016 specification (or its latest version) and compressed at 250 bar pressure: -

S No	Lower Retail Selling Price of CBG in Slab	Higher Retail Selling Price of CBG in Slab	Procurement price of CBG	Procurement price of CBG
	including tax	including tax	Without GST	With GST
	Rs./kg	Rs./kg	Rs./kq	Rs./kg
1	Retail Selling Pri	ce of CBG up to 70	54.00	56.70
2	70.01	75.00	55.25	
3	75.01	80.00	59.06	58.01
4	80.01	85.00		62.01
5	85.01	90.00	62.86	66.01
6	90.01		66.67	70.01
7	95.01	95.00 100.00	70.48 74.29	74.01 78.01

Note: The above table is applicable strictly for supply of CBG at a one-way distance up to 75 km from the CBG Plant. For distance beyond 75 km, the price will be first adjusted as defined in para

Page 1 of 2

पंजीकृत कार्यालय : इंडियन ऑयल भवन, जी–9, अली यावर जंग मार्ग, बान्द्रा (ई.), मुम्बई – 400051, महाराष्ट्र (भारत) Regal Office: IndianOll Bhawan, G-9, Ali Yavar Jung Marg, Bandra (E), Mumbal - 400051, Maharashtra (India)

CIN: L23201MH1959GOI011388

As of November 2024, the Ministry of Power has established benchmark prices for biomass pellets to promote sustainable energy practices in thermal power plants across various regions in India. For the Western Region, which includes states like Maharashtra and Gujarat, the benchmark price for non-torrefied biomass pellets is set at ₹2.24 per 1,000 kcal. These pellets are required to have a moisture content below 14% and a Gross Calontic Value (GCV) between 2,800 to 4,000 kcal/kg. This pricing structure is effective from

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November 8, 2023, for a period of one year, and excludes Goods and Services Tax (GST) and transportation costs at the pellet manufacturing plant site. For the Northern Region, excluding the National Capital Region (NCR), the benchmark price has been determined at ₹2.27 per 1,000 kcal under similar conditions. (Source: energy.economictimes.indiatimes.com)

Specific benchmark prices for biomass pellets in the Southern Region, including Telangana and its capital Hyderabad, have not been explicitly outlined in the available sources. However, local market data indicates that biomass pellets in Hyderabad are available at approximately ₹17 per kilogram. (Source: tradeindia.com)

This price point is higher than the benchmark prices set for other regions, which may be attributed to factors such as higher calorific value, local market demand, production costs, and supply chain logistics. For biomass pellets with a GCV of 4,800 kcal/kg, the price can be calculated based on the benchmark rates. Using the Northern Region's rate of ₹2.27 per 1,000 kcal, the price per kilogram would be approximately ₹10.90 (₹2.27 × 4.8).

The selling price of Bio-CNG is considered on conservative side as INR 74.29/kg. The selling rate of Biomass Pellets (Briquettes) is assumed as INR 8.00 per kg on conservative side.

4. MARKETING, SELLING & DISTRIBUTION PLAN:

a) BIO CNG:

The Bio-CNG produced has to be sold to Indian Oil Corporation Ltd stations situated within 25-75 km, for which the company have already secured a purchase agreement/LOI (Ref No. - Indian Oil/SATAT/01/3961, Date: 1st Jan 2025).

b) ORGANIC FERTILIZER:

The by-product of the biogas generation process is high-calorific biomass briquettes, which serve as an efficient and eco-friendly alternative to conventional fossil fuels. As informed by the client, these biomass briquettes are in high demand as a sustainable fuel source for industrial and commercial applications, including boilers, kilns, and power plants. The briquettes are to be directly marketed through appropriate distribution channels and assumed to be sold at a competitive price of INR 8.00/Kg, ensuring both economic and environmental benefits for end users.

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TECHNO-ECONOMIC VIABILITY REPORT

M/S BLUELEO ENERGY PRIVATE LIMITED



इंडियन आयल कॉपॉरेशन लिमिटेड कांगरिट का रालय

Indian Oil Corporation Limited

Corporate Office 10" Floor, NSV. J. comercial Complex Brock No. 2. Evil Kidwai Nieger, New Dietr., 110023 Phone +91-11-2434-7500 Website I was not born IndianOil

कॉर्परिट कार्यालय

Corporate Office

Ref: IndianOil/SATAT/01/3961 Date: 01.01.2025

To.

Blueleo Energy

Villa- 589, My Home Ankura, Tellapur, Rc Puram, Sangareddy District, Telangana-502032.

Sub: Letter of Intent for supply of CBG to IndianOil under SATAT

Madam/ Sir,

This has reference to the following:

Notice Inviting Expression of Interest (NIEOI) ref.:

NIEOI released on.

NIEOI application dated: NIEOI file reference number:

Status of CBG Plant as on date of application.

CBG plant location as per NIEOI application:

CBG Quantity as per NIEOI application:

CBG75

01.10.2024

30.10.2024 1037605

Proposed

Kasala, Sangareddy, Telangana

2.5 Tonnes Per Day

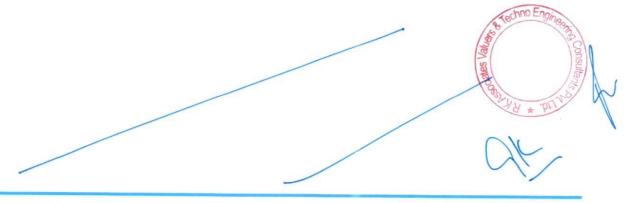
We also refer to documents submitted in the EOI and/or correspondences exchanged with IndianOil and your willingness to provide Compressed Bio Gas (CBG) to IndianOil from the above mentioned CBG plant for marketing through IndianOil's Retail Outlet(s).

Based on the evaluation of the EOI submitted by you, we hereby issue this Letter of Intent (LOI) for retailing of CBG produced from your above mentioned CBG Plant on following broad terms and conditions -

- 1. In accordance with the NIEOI, you shall be responsible for, inter alia, the following obligations
 - a. You shall be responsible for planning, preparation, engineering and execution of the CBG Plant, including storage of raw material, operation and maintenance of the CBG Plant, maintaining final product output quantity and quality, managing the byproducts and wastes from the CBG Plant as per existing central / state government norms and providing performance guarantee for the CBG Plant at your cost.



पजीकृत कार्यालय : जी-9, अली यावर जग मार्ग बान्दा (पूर्व मुम्बई-400051 मंत्राराष्ट्र (भारत Regd. Office : G-9, Al Yavar Jung Marg. Bandra (Earl), Mumba-400051, Maharashtra (India) CIN- C23201 MH 1959 GOI 01:388







PART G

FEEDSTOCK ANALYSIS

1. INTRODUCTION:

Bio-Methane from Anaerobic Digesters (AD): Anaerobic processes could either occur naturally or in a controlled environment such as a biogas plant. Organic waste such as livestock manure and various types of bacteria are put in an airtight container called digester so the process could occur. Depending on the waste feedstock and the system design, biogas is typically 55 to 60 percent pure methane. The state-of- the-art systems report producing biogas that is more than 95 percent pure methane.

The primary component of an AD system is the anaerobic digester, a waste vessel containing bacteria that digest the organic matter in waste streams under controlled conditions to produce Bio-methane. As an effluent, AD yields nearly all of the liquid that is fed to the digester. This remaining fluid consists of mostly water and is recycled to flush manure from the swine building to the digester.

	Approximate Quantity Required for Generation of One M ³ Biog	gas
S. No.	Substance	Quantity (Kg)
1	Cattle Dung	20
2	Paddy Straw	4
3	Napier grass	8
4	Poultry Waste	8
5	Horse/ Mule/ Elephant Dung	12-15
6	Food waste: Pre and post cooked leftover food from households, hotels and canteens.	10-12
7	Green waste (vegetable market waste): Vegetable Refuses from Vegetable Markets or kitchens.	10-12
8	Paddy straw/ wheat straw/ mushroom spent waste: Lawn cuttings, leafy biomass, dried flowers, finely chopped and ground straw or bagasse.	5-8
9	De-oiled rice bran	3-4
10	De-oiled seed cake (Pongamia/ Jatropha)	3-4
11	Segregated municipal solid waste (biodegradable)	12-15
12	Slaughter house waste	5-10 Engin

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Sr. No.	Item	Daily RequiredQuantity (Ton)
1	Agriculture Products (Rice Stubble, Napier Grass etc.)	100-110
2	Poultry Droppings	98-100
3	Food Waste	175-180
4	Paddy Straw	130-150

Combination of any of these mentioned above can also work in proportionate quantity. However, as per feed stock analysis the CBG plant will be using the following Combination of Raw Materials, while it should be noted that the feed stock quantity may very base on dry matter and volatile matter available in the below mention combination of feed stock:

	Proposed Com	bination of Raw material
S. No.	Item Daily Input Quantity (Ton	
1	Napier Grass	~60

2. NAPIER GRASS:

Napier grass, also known as elephant grass, is a productive and versatile forage grass native to Africa and Southeast Asia. Napier Grass is an ideal substrate for biogas Production. In India, the reported annual production yield of Napier grass ranges from 150-200 tonnes per acre per year, which is significantly higher (25-35 tonnes per hectare) compared to other energy grasses like miscanthus and switchgrass.

Composition of Super Napier grass			
Parameters, %	Fresh, %	Dry Matter, %	
Crude Protein, %	1.21	8.12	
Crude Fibre, %	5.37	36.02	
Crude Fat, %	10.12	67.87	
Moisture, %	85.09		
Ash, %	1.01	6.77	
Neutral Detergent Fibre, %	10.2	68.41	

Napier grass is categorised as lignocellulosic biomass, with its carbohydrate composition typically consisting of 35-39 per cent cellulose, 19-23% xylan and 15-19% lignin on a dry mass basis. With an energy output-to-input ratio of approximately 25:1, it emerges as one of the most promising energy crops.

Studies have shown that Napier Grass has a high methane yield due to higher cellulose and crude protein, making it an efficient source of Bio-CNG with the potential for significant energy

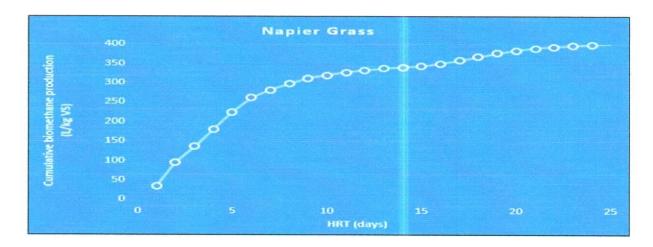
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output. The cultivation of Super Napier stick seed grows very easy and fast and get the height of 6 feet in 30 days. This fast-growing perennial grass can reach a height of 10-15 feet and can be harvested 5-6 times annually.



Napier grass, also known as elephant grass, is a productive and versatile forage grass native to Africa and Southeast Asia. Due to its high yield, it is widely used as feed for livestock and in bioenergy applications. While it may be a relatively new energy crop in India, Thai farmers have been cultivating it for over 30 years, with more than 130 varieties. This fast-growing perennial grass can reach a height of 10-15 feet and can be harvested 5-6 times annually.

The first harvest occurs four months after planting, followed by subsequent harvests every two months for up to seven years. Napier grass is categorised as lignocellulosic biomass, with its carbohydrate composition typically consisting of 35-39 per cent cellulose, 19-23 per cent xylan and 15-19 per cent lignin on a dry mass basis. With an energy output-to-input ratio of approximately 25:1, it emerges as one of the most promising energy crops for the creation of cost-effective and efficient bioenergy systems.

In India, the reported annual production yield of Napier grass ranges from 150-200 tonnes per acre per year, which is significantly higher (25-35 tonnes per hectare) compared to other energy grasses like miscanthus and switchgrass. However, there are specific varieties that have shown even higher yields. Few microbiologists and farmer, achieved biomass productivity of 350-400 tonnes per acre per year by cultivating a hybrid variety called Super Napier in Maharashtra's Gondia district.

Through experiments, it was discovered that with a 24-hour microbial pre-treatment, 100 kgs of the grass yielded 6 kgs. of biogas, which had a 62.3 per methane content. Alternatively, when the same feedstock underwent a 24-hour pre-treatment with 1 per cent Noah, a slightly higher yield of 6.5 kg of biogas with 61.5 per cent methane content was obtained.

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Another crucial factor to consider is the operational intricacies of a CBG plant exclusively reliant on Napier grass. Numerous laboratory-scale studies have demonstrated that co-digestion, involving a combination of Napier grass with cow dung or food waste, results in higher yields compared to using Napier grass alone.

Moreover, it is essential to note that Napier grass is a warm-season grass and undergoes dormancy during the winter months. To ensure an uninterrupted supply of feedstock throughout the year for the CBG plant, it is vital to have alternative feedstock options available during the winter season.

There are many Operational and under construction plants using Napier Grass as Raw material in India such as Maruti Suzuki India Limited, Manesar Unit – Food waste or Napier Grass as Raw Material, GPS Renewable – Multiple Bio-CNG projects with 150 TPD Agriresidue including paddy straw, Napier grass for Reliance Industries, producing an output of 18 to 20 TPD of Bio-CNG per day and Gruner Renewable Energy – Multiple Bio-CNG projects worth of Rs. 1500 Cr on Agriresidue including paddy straw, Napier grass.

3. AVAILABILITY OF RAW MATERIAL:

As per the feedstock analysis and the data/information provided by client, plant will require ~50-60 tons per day Napier Grass to produce the 2.50-ton Bio-CNG per day.

The plant will use approximately 18,000 tons of Napier Grass – contributing to wealth generation for the local community while at the same time being a part of the solution to the problems of import dependence for India's energy needs. For the procurement of the Raw Material, the company has signed a long-term supply agreement with Mr. G. Vijay Bhashkar Reddy (Individual Farmer) on 6th April 2024 to supply atleast 50 ton of Napier Grass per day.

4. PRICING:

Pricing of the raw material i.e., Napier Grass is considered as per the long-term supply agreement. According to the terms & conditions stated in the agreement, Mr. G. Vijay Bhashkar Reddy will supply a minimum of 50 MT of Napier Grass per day as per the specifications and in the manner as mutually agreed between the parties. Mr. Reddy is responsible to cultivate and supply Napier Grass to the company for the purpose of Gas Production and its derivatives with a rate of INR 0.54 per kg with an increment of 5% every 3

years.





PART H

INDUSTRY OVERVIEW

1. INTRODUCTION:

Bio-CNG is considered a renewable fuel and has also been proven to reduce the emission of greenhouse gasses when used as a transport fuel. Bio-CNG, derived from the filtration of biogas, is also referred to as Compressed Biogas (CBG) and bio-methane. It is derived from biogas after removing impurities like carbon dioxide and hydrogen sulphide. As per the details available on Gobardhan Portal (https://gobardhan.co.in/), approx. 118 CBG/Bio CNG plants are completed and functional in 187 districts and 201 CBG/ Bio CNG plants are under construction at present.

Bio-CNG plants get financial and other incentives from the Union government under the Sustainable Alternative towards Affordable Transport (SATAT) Scheme. The scheme, launched in 2018, supports the establishment and expansion of bio-CNG plants that use waste to produce biofuel. Under the scheme, the Union government plans to establish a total of 5,000 bio-CNG plants in India by the end of FY 2025.

2. POTENTIAL AND EXPANSION:

In India, around 70 percent of the sugarcane is produced by three major states — Uttar Pradesh, Maharashtra, and Karnataka. India produces, on an average, over 300 million metric tonnes of sugarcane per year. Around 3.5 percent of this, can be the amount of press mud produced. At this rate, India has the potential to produce around 10 million metric tonnes of press mud/filter cake per year that could be diverted for producing bio-CNG.

Indian sugar industry while crushing around 300 million tonnes of sugarcane and producing about 10 million tonnes of press mud annually can offer compressed bio-methane/bio-CNG to the extent of 0.4 million metric tonnes.

Feedstock	Pan India accessible amount (TPD)	Biogas potential per ton (kg)	Bio-CNG potential per ton (kg)	Pan India CBG potential (TPD)
Urban food waste, fruit and vegetable	50,000	75	40	2,000
Poultry litter	1,00,000	100	60	6,000
Press mud	1,00,000	150	80	8,000
Total	*			16,000

The Bio-CNG potential in India is estimated at 62 million metric tonnes (MMT) per annum, out of which the Sustainable Alternative towards Affordable Transportation (SATAT) scheme

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aims to tap 15 MMT. India biogas market is expected to grow from \$1.47 billion in 2022 to \$2.25 Billion in 2029 at a CAGR of 6.3% during the forecasted period.

The sector is about to attract over USD 2 Billion investment in the next 5-7 years under its SATAT scheme, the govt. announced an ambitious plan of touching 15 million metric ton per annum, which is roughly 40,000 ton per Day.

Demand for alternative fuel vehicles in India is on the upswing and clearly seen in the increasing sales of CNG-powered vehicles. Given the favourable price arbitrage of CNG versus petrol and diesel, retail sales of CNG vehicles, across four sub-segments, crossed the 650,000-unit mark for the first time in a fiscal in FY2023. Cumulative sales of 660,153 units (see data table below) translate into strong double-digit YoY growth of 46% (FY2022: 451,552 units). (Ref.: https://www.autocarpro.in/analysis-sales/cng-vehicle-sales-surge-by-46-to-over-650000-units-in-fy2023-114656).

CNG passenger vehicles (PVs), with 318,752 units, account for 48% of the total retail sales in FY2023 and surged by 40.71% year on year (FY2022: 226,547 units) and took an 8.80% share of overall retail sales of 36,20,039 PVs in India.

3. CHALLENGES:

The GOI has formulated various policies and schemes to promote and mitigate challenges associated with the Bio-CNG sector. There are still some operational and technological challenges such as sensitivity towards biomass quality, biogas upgradation process among others which are impeding the uptake of Bio-CNG projects. Below table shows the challenges:

Feedstock Availability	Quality of Feedstock (including multiple feedstocks)	Technology Challenges	Bio-CNG and by- products' Market Challenges	Financing, and Implementation Challenges
 No formal market for trading of feedstock Uncertainty of long-term regular supply of feedstock Demand supply mismatch - requirement of large storage facility Unorganized biomass value 	 Variation in quality of feedstock throughout the year Some projects are designed to take multiple feedstock optimal operation is a challenge and may also affect the quantity and quality of Bio-CNG Source segregation 	Technologies are sensitive to the quality of feedstock — slight change in feedstock quality will significantly impact the Bio-CNG production rate Capital	Parameter Control of C	 There are schemes by public sector banks to finance Bio-CNG project, but less private sector banks are financing Bio-CNG project that too at high cost of debt. Lack of access to infrastructure i.e. road network and CGD network near project sites. arge set of

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chain – lack of sufficient collection, processing and transportation facility	is important – receiving non- segregated waste is an operational challenge	intensive technologies high upfront project cost	viability risks Create market demand for by- products such as Bio manure etc.	approvals are required from PESO, pollution control board, MNRE - subsidy disbursement etc.
----------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------	-----------------------------------------------------------	--------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------

4. GOVERNMENT INITIATIVES:

- Government has announced the phased mandatory blending of compressed biogas (CBG) in compressed natural gas (CNG) for transportation and piped natural gas (PNG) for domestic purposes in the latest interim budget for FY 2024-25.
- The government has increasingly focused on the production of compressed biogas in India. It is currently aiming to set up 5,000 CBG plants by FY25 under SATAT.
- Under Waste To Energy Programme, MNRE is providing the subsidy of INR 4.0 Cr per 4800 kg/day for Bio CNG generation from new biogas plant and INR 3.0 Cr per 4800 kg/day for Bio CNG generation from existing Biogas plant, while the maximum CFA of INR 10.0 Cr/project for both cases.
- GOBARDHAN: Ministry of Drinking Water and Sanitation, Financial assistance of INR 50
 lakh per district is available for setting up model GOBARDHAN projects. SATAT Scheme
 OF MoPNG for encouraging OMCS's to issuance of LOI to the producers.
- Eight Biogas Development and Training Centres (BDTCs) have been established at India's premier Institutions to provide Technical Assistance, R & D, Testing and Validation of New Biogas Models / Designs, field inspections of biogas plants, and training and skill development.
- Government of Uttar Pradesh is providing the subsidy of INR 75 lac / Ton under the provision of UP Bio Energy Policy 2022 and benefit up to INR 2.0 Cr from Agriculture Infrastructure Fund (AIF) – Circular dated 27th Oct. 2020.
- Market Development Assistance (MDA) for Promotion of Organic Fertilizers @ Rs. 1500
 / Ton to CBG Plants.

5. CONCLUSION:

The business of bio CNG gases is in high demand because it is a clean and renewable source of energy. Additionally, it is more cost-effective than traditional sources of energy, and

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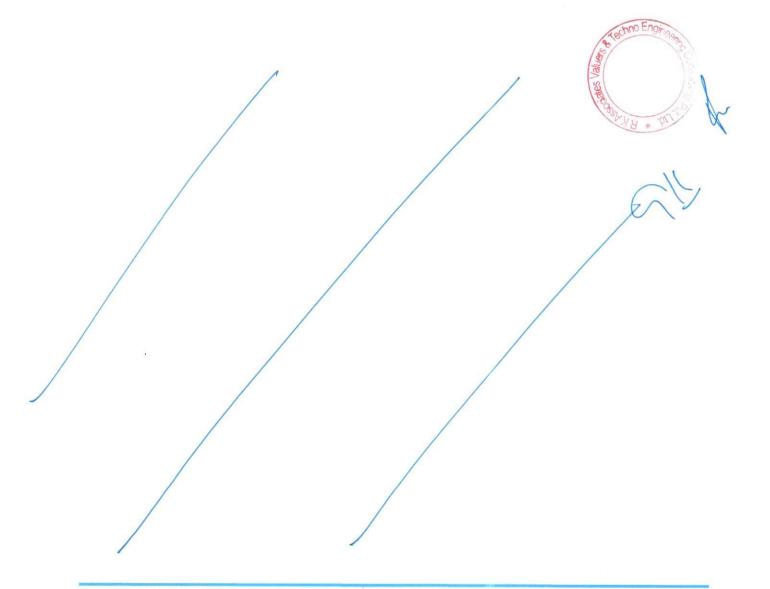




it can be used to power a variety of vehicles. Bio CNG gas is also a versatile fuel that can be used in a variety of applications.

Though there are a few reasons for this increase in demand, the primary one seems to be that environmentalism is becoming more and more popular. As people become more aware of the damaging effects that traditional forms of energy have on the environment, they are searching for alternatives that are cleaner and renewable.

India biogas market is expected to grow from \$1.47 billion in 2022 to \$2.25 Billion in 2029 at a CAGR of 6.3% in forecast period, 2022-2029. Bio CNG gas is one such alternative, and its popularity is only increasing as time goes on. Bio CNG can be produced from a variety of organic materials, making it a sustainable choice for energy production. Additionally, bio CNG produces fewer emissions than traditional fossil fuels, making it a more environmentally-friendly option. Finally, bio CNG is becoming increasingly cost-competitive as technology advances and production methods improve.





TECHNO-ECONOMIC VIABILITY REPORT

M/S BLUELEO ENERGY PRIVATE LIMITED



PARTI

SWOT ANALYSIS

	SWOT ANALYSIS
	Strategic Location: The project is situated in Sangareddy, Telangana, several agricultural lands are situated near by the location of the proposed Bio CNG plant ensures the availability of Napier Grass.
	 Growing Demand: Due to renewable source of energy, demand for Bio-CNG is expected to grow at a CAGR of ~6 % in the upcoming years.
STRENGTHS	 LOI: The produced Bio CNG will be supplied to IOCL as per the LOI issued by OMC under SATAT scheme, which is an effortless avenue for the project to generate the revenue. (Ref No Indian Oil/SATAT/01/3961, Date: 1st Jan 2025).
	 Government Support: The project will be entitled to avail incentives of ~INR 2.08 Cr (INR 4.0 Cr per 4800 kg/day) for Bio CNG generation from new biogas plant, Under Waste to Energy Programme of Ministry of New and Renewable Energy.
	Technology: The proposed plant (Semi-Automatic) will be commissioned with KVIC Floating Dome Model with Thermophilic biomethanation technology, which is a proven technology empirically.
	CAPEX: The proposed Bio CNG plant would be set up by a high initial investment, in which more than 70% capital would be required for plant & machinery.
WEAKNESSES	Infrastructure Requirements: The project's power load and water consumption are significant, and ensuring uninterrupted power supply and adequate water resources may pose challenges. However, Manjira River is ~700m away ensuring enough water supply.
	 Raw Material Market: There is no any formal market for raw material, leading to establish a feedstock pricing mechanism. However, the company has a Long-term Raw Material Supply Agreement with a FPO.
OPPORTUNITIES	Increasing Alternate fuel's Demand: As the transportation industry is expanding, there will be an organic demand for Bio CNG/CBG as an alternate fuel due to mandatory blending of compressed biogas (CBG) in compressed natural gas (CNG) for transportation. CBG CAG C
	Expansion Potential: The Company is having the plan to pand its

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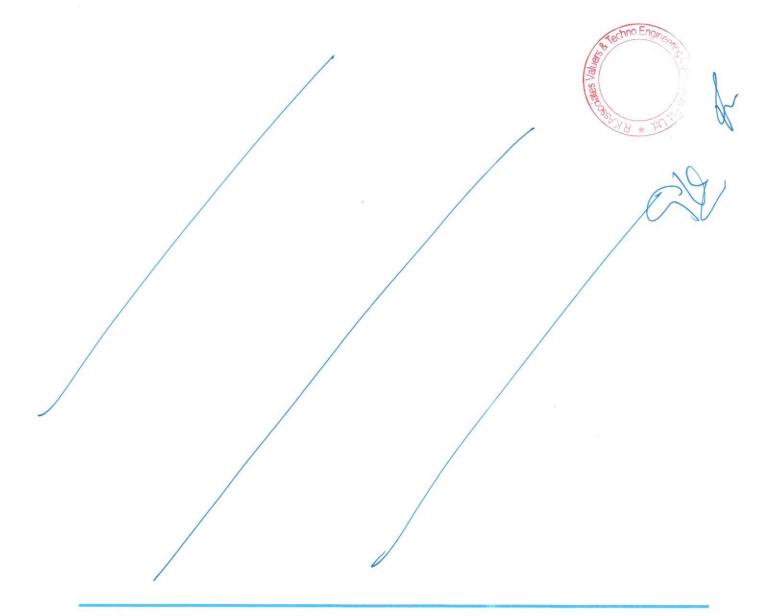


TECHNO-ECONOMIC VIABILITY REPORT



M/S BLUELEO ENERGY PRIVATE LIMITED

	 business in future for manufacturing Bio LNG for exports in foreign countries with huge demand potential. Government Support: The project can benefit from government initiatives and policies aimed at promoting the Bio CNG production to achieve Net Zero target by 2070.
	Fluctuating Raw Material Prices: With the increasing demand of Napier Grass, the prices are increasing.
THREATS	Economic Factors: Profitability of the project may hamper due to any blockage of Napier Grass.
	 Dependency on LOI: Any breach of the Offtake Purchase agreement with OMC, the company may require to search the new approach to sell its production in the market.







PART J

PROJECT COST AND MEANS OF FINANCE

As per data/information shared by the client, the proposed Bio CNG generating project is proposed to be commissioned by making an investment of INR 8.37 Crores as shown in the below table along with Means of finance:

	Total Project Cost	
S. No.	Capital Cost Head	Amount (INR Crore)
1	Building & Civil Works	2.64
2	Plant & Machinery	5.12
3	Interest During Construction (IDC)	0.22
4	Contingencies (5% of Item 1-2)	0.39
	TOTAL	8.37
	Means of Finance	
S. No.	Particular	Amount (INR Crore)
1	Promoters' Equity	0.01
2	Unsecured Loan from Promoters	2.50
3	Loan from Banks	5.86
	TOTAL	8.37

Source: Data/Information provided by the company.

Notes:

- 1. As per the lease deeds shared by the client/company, the promoters have leased 2 Acres and 22 Guntas (i.e., ~2.52 Acres) at Survey No. 685/ part, 686/part, Village-Kasala, District: Sangareddy, Telangana. This land has been leased out in the name of the company for 15 years with an option of with an option of renewal at the end of lease as per the shared lease deed executed on 23rd September 2024, for setting up the proposed Bio-CNG plant.
- As per the data/information received from the company/client, the estimated cost of the Building & Civil works is ~INR 2.64 crores including applicable GST.
- The cost of Plant & Machinery has been considered as per the data/information shared by the client/company. The estimated cost for plant & machinery will be ~INR 5.12 crores including GST.
- Contingency cost of INR 0.39 crores (~5% of Civil Works and Plant & Machinery) has been considered based on general assumption and professional experience. Interest during Construction will be paid from April 2025 by the company @ 10%.

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- For the total project cost of INR 8.37 Crores, Promotor's Equity of INR 0.01 Crore, Unsecured Loan from promoters of INR 2.50 Crores and bank loan of INR 5.86 crores.
- 6. Thus, ~INR 3.35 Crore per ton including GST, IDC & contingency expenses considering the fact that the plant would be commissioned by the company itself from scratch to the successful trial run and the cost of setting up the plant is taken as per the data/information/quotations provided by the client/company.

However, as a TEV consultant we have verified the all the major costs which we found reasonable & in the permissible range with reference to the reasoning shared by the company which is mentioned above and as per the tertiary research done by us, data/information available in the public domain and information provided by the third-party consultants/vendors. (Ref: https://pib.gov.in/PressReleasePage.aspx?PRID=1868887).

Asia's largest Compressed Bio Gas (CBG) plant inaugurated in Sangrur on 18th Oct 2022 by Ministry of Petroleum & Natural Gas. The Plant was commissioned with an FDI investment of ~INR 220 crores, which is spread over an area of 20 acres. The installed capacity of the plant is 33 TPD. The capital expenditure of the plant is ~INR 6.67 Crore per ton. Some of the other references are shown in the below table:

		Reference fo	r Bio Gas Plant
S. No.	Name of the Company	Contact Details	Remarks
1.	Mahindra group	https://www.thehin du.com/news/cities/ chennai/Mahindra- City-gets-bio-CNG- plant/article1397846 0.ece	400 kg/day plant capacity of Mahindra group plant in Chengalpattu, Tamil Nadu setting up cost is estimated around Rs. 1.6 crore which comes out to be around Rs. 4 Crore per MT
2.	The Global Green Growth Institute, GGGI India	nishant.bhardwaj@g ggi.org	 As per information provided by GGGI, the capital expenditure (CAPEX) for a typical 8-10 TPD Bio-CNG plant varies from INR 32-50 Crore which varies based on the type of biomass feedstock and technology deployed. It has been estimated that the plant and machinery costs contribute ~76% of CAPEX. (Excluding preliminary and pre-operative)

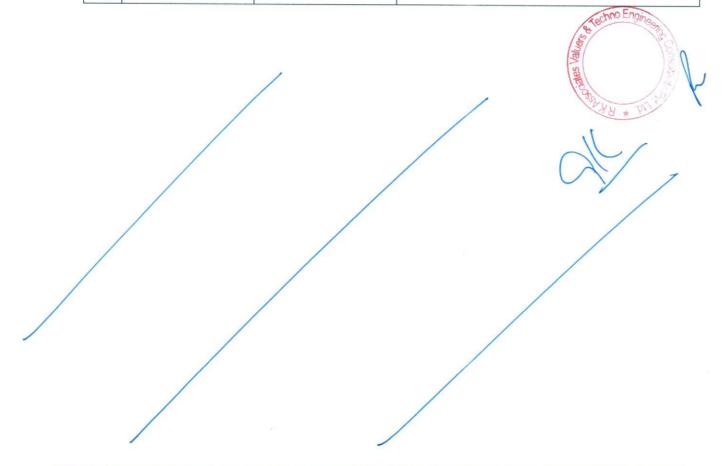
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			expenses and excluding all other costs such as engineering, consultancy, installation costs etc. i.e., EPC Costs)
3.	Ministry of New & Renewable energy	MNRE	 The economics of a CBG plant can vary depending on various factors such as the scale of the plant, technology used, feedstock cost, government incentives and market demand for CBG. ~INR 20-25 crore is the cost of installing a 5 TPD capacity CBG plant, while ~75-80% of the CAPEX cost is for purchasing plant machinery.
4.	Other Vendors	On the public domain	KVIC Floating Dome Bio-Methanation Technology which is flexible for all types of organic wastes including mixed wastes. Capital cost for this technology is approximately INR 3-5 Crore per ton including all the costs from scratch to successful trial run.







PART K

PROJECT IMPLEMENTETION SCHEDULE

The proposed Bio CNG generating unit is expected to achieve its C.O.D till 1st October 2025, as per the proposed implementation schedule shown in the table below:

S. No.	Particulars	• Activity	Expected Completion Date	Status
		Land Procurement		
1.	Land	Land Lease registration	Completed	Both Land lease registration and NALA (Non-Agri Land) process completed
		Appointment of Architect	March 2025	Under process
		Building Plan Preparation	March 2025	Under process
2.	Building & Civil Works	Building Plan Sanction	March 2025	Under process
		Appointment of Civil contractor/ developer	April 2025	Under process
		Building & Civil Works completion	July 2025	Yet to start
		Finalization of P&M suppliers	Suppliers Finalized	Quotations obtained
3.	Plant & Machinery	Orders to P&M suppliers	April 2025	Under process
		Arrival of P&M	June 2025	Under planning
		Installation of P&M	July 2025	Under planning
		Utility Installation	July 2025	Under planning
4.	Statutory Approvals, registrations & NOCs	From the respective authorities	August 2025	Under Process no Engine

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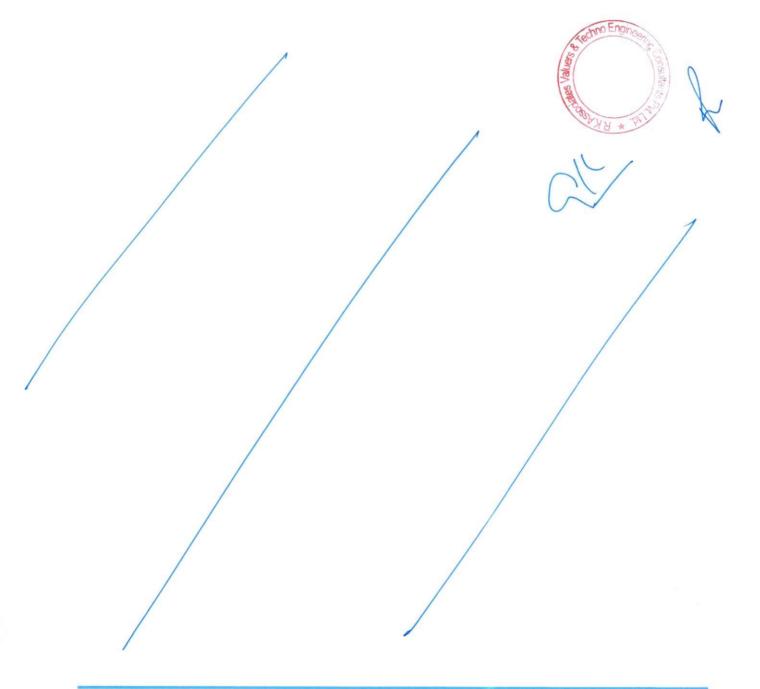




5.	Finishing & Trail Run	Informed by client	4 th week of August 2025	Scheduled
6.	Commercial Operation Date	Informed by client	1 st October 2025	Scheduled

Notes:

- Schedule has been made as per feasibility to achieve different milestones.
- 2. Achievement of Milestone will depend on sanction of term loan as per proposed timeline.
- 3. For current status of statutory approvals, kindly refer the "Section L" of this report.
- 4. As per this timeline, the expected C.O.D will be 1st October 2025.







PART L

STATUTORY APPROVALS | LICENCES | NOC

As shown in the below table along with current status, following major approvals are required. However, the list is not exhaustive and State/District Authorities may be approached for further clearances required (if any):

S. No.	Name Of License/ Registration Issuing Authority	Purpose	Licence No. With Date	Current Status
1.	Certificate of Incorporation Ministry of Corporate Affairs, Government of India	RoC registration	U20111TS2023PTC176291 21 st August 2023	Completed
2.	Land conversion to Industrial/Non agriculture Tahsildar & Jt. Sub Registrar Office, Hathnoor, Telangana	NALA Conversion	2500015292 & 2500107341 21st February 2025	Approved
3.	Approval of Building / Site Plans HUD & Dept. of Labour	Grant of approval on building plans	-	Yet to Apply
4.	Consent to Establish under Air (Prevention and Control of Pollution) Act, 1981 & Water (Prevention and Control of Pollution) Act, 1974 Telangana Pollution Control Board	NOC for CTE	-	Yet to Apply
5.	NOC for fire-fighting Fire Dept., Telangana	NOC under firefighting scheme	-	Yet to Apply
6.	Ground Water Permission CGWA Telangana	NOC for Water Extraction	-	Yet to Apply
7.	Power load sanction / Electric connection TSSPDCL	For Power load sanction	-	Yet to Apply
8.	GOBARdhan Registration Certificate		-	Yet to Apply

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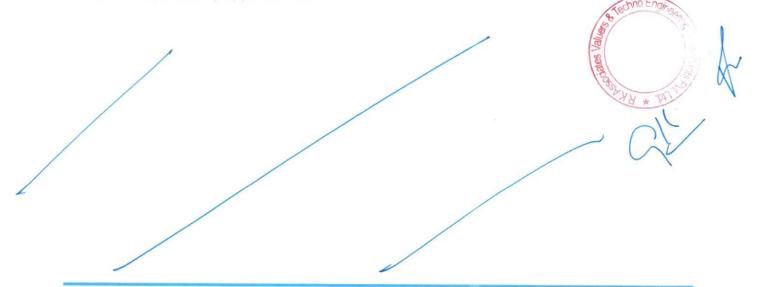




9.	Petroleum & Explosives Safety Organisation (PESO)	_	Yet to Apply
	Ministry of Commerce & Industry, Government of India		тес со другу

Observation Note:

- 1. The company has leased 2 Acres and 22 Guntas (~2.52 Acres) at Survey No. 685/part, 686/part, Village-Kasala, District Sangareddy, Telangana, for 15 years with a renewal option, as per the lease deed executed on 23rd September 2024, for the proposed Bio-CNG plant. The Nala conversion for 2 Acres and 14 Guntas was approved by the Tahsildar, Hathnoora Mandal, on February 21, 2025. However, conversion was restricted for the portion under a high-tension electricity line, where construction is prohibited.
- 2. The current access to the property is from the west side via a kuccha road approximately 12-15 feet wide. As per the company's information, a new entry is proposed from the north side of the property. However, during the site visit, we found that the property doesn't have access route from the north side. The company is actively engaging with landowners to secure a passageway by leasing the land between the project site and the approach road, which is approximately 455 meters away.
- As informed by the client/company, all the approvals will be applied in a single-window clearance system (TS-IPASS) as per Telangana State.
- 4. Above is the only illustration of the major approvals sought or to be sought by the company. It should not be construed as the exhaustive list and in case any approval is missed to be mentioned then it is the sole responsibility of the company to keep the unit compliant with the necessary statutory approvals/ NOCs.







PART M

COMPANY'S FINANCIAL FEASIBILITY

1. PROJECTIONS OF THE FIRM:

The financial projections of the project are prepared from FY 2025-26 to FY 2035-36 based on the expected COD and loan tenor as per the best practice in industry to assess the financial feasibility of the project are elaborated below:

A. PROJECTED PROFIT & LOSS ACCOUNT:

(INR Crores, unless mentioned otherwise)

	Units	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031
Particulars	Year	1	2	3	4	5	6
	Months	6	12	12	12	12	12
Capacity Utilisation		70%	80%	90%	100%	100%	100%
Revenue							
Operational Revenues		2.99	7.01	8.18	9.42	9.77	10.14
Other Income		0.00	0.06	0.12	0.18	0.30	0.48
Total Income		2.99	7.07	8.30	9.60	10.07	10.62
Expenses							
Raw Material		0.49	0.97	1.02	1.02	1.02	1.07
Change in Inventories		-0.01	-0.01	0.00	0.00	0.00	0.00
Lease Rental		0.03	0.03	0.03	0.03	0.03	0.03
Power & Fuel		0.22	0.45	0.47	0.48	0.49	0.51
Salary & Wages		0.24	0.54	0.59	0.65	0.72	0.79
Biomass Pellet Processing Cost		0.29	0.67	0.77	0.89	0.91	0.94
Repair & Maintenance		0.02	0.04	0.05	0.05	0.05	0.05
Insurance expenses		0.02	0.02	0.02	0.02	0.02	0.01
Depreciation		0.22	0.45	0.45	0.45	0.45	0.45
Cost of Sales		1.53	3.17	3.40	3.59	3.69	3.86
Selling, General & administration Expenses		0.23	0.54	0.63	0.72	0.75	0.78
Total Expenses		1.76	3.71	4.03	4.31	4.44	4.63
EBIT		1.23	3.36	4.27	5.29	5.63	5.98
Interest on term loan		0.29	0.56	0.50	0.44	0.38	0.32
Profit before Taxes (PBT)		0.94	2.81	3.77	4.86	5.25	5.66
Tax		0.26	0.78	1.05	1.35	1.46	1.57
Profit after Taxes (PAT)		0.68	2.03	2.72	3.50	3.79	4.09

(Continued)

(INR Crores, unless mentioned otherwise)

		(IIVI CIOI	es, uniess	mentioned	Outel wise)
Units	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036
Year	7	8	9	10	11
Months	12	12	12	12	12
	100%	100%	100%	100%	100%
				/9	Rechno Engine
	10.51	10.91	11.31	11.74	12.18
	Year	Year 7 Months 12 100%	Units FY 2032 FY 2033 Year 7 8 Months 12 12 100% 100%	Units FY 2032 FY 2033 FY 2034 Year 7 8 9 Months 12 12 12 100% 100% 100%	Year 7 8 9 10 Months 12 12 12 12 100% 100% 100% 100%

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Other Income	0.72	0.96	1.20	1.44	1.68
Total Income	11.23	11.87	12.51	13.18	13.86
Expenses					
Raw Material	1.07	1.07	1.13	1.13	1.13
Change in Inventories	0.00	0.00	0.00	0.00	0.00
Lease Rental	0.03	0.03	0.03	0.03	0.03
Power & Fuel	0.52	0.54	0.56	0.57	0.59
Salary & Wages	0.87	0.95	1.05	1.15	1.27
Biomass Pellet Processing Cost	0.97	1.00	1.03	1.06	1.09
Repair & Maintenance	0.06	0.06	0.06	0.06	0.07
Insurance expenses	0.01	0.01	0.01	0.01	0.01
Depreciation	0.45	0.45	0.45	0.45	0.45
Cost of Sales	3.98	4.12	4.31	4.47	4.64
Selling, General & administration Expenses	0.80	0.83	0.86	0.89	0.92
Total Expenses	4.79	4.95	5.18	5.36	5.56
EBIT	6.45	6.92	7.34	7.82	8.30
Interest on term loan	0.26	0.21	0.15	0.09	0.03
Profit before Taxes (PBT)	6.18	6.71	7.19	7.73	8.27
Tax	1.72	1.87	2.00	2.15	2.30
Profit after Taxes (PAT)	4.46	4.84	5.19	5.58	5.97

B. PROJECTED BALANCE SHEET:

Below table shows the Projected Balance Sheet of the proposed Bio CNG generating project from the period FY 2025-26 to FY 2035-36.

(INR Crores)

Year Ending	30-Sep-	31-	31-	31-	31-	31-
real Litting	25	Mar-26	Mar-27	Mar-28	Mar-29	Mar-30
Year Counter	0	1	2	3	4	5
Months Counter	6	6	12	12	12	12
LIABILITIES						
Equity	0.01	0.01	0.01	0.01	0.01	0.01
Reserve & Surplus		0.68	2.70	5.43	8.93	12.72
Unsecured Loan (Quasi Equity)	2.50	2.50	2.50	2.50	2.50	2.50
Secured Loan	5.86	5.27	4.69	4.10	3.52	2.93
CURRENT LIABILITIES						
Trade Payables	0.00	0.04	0.08	0.08	0.08	0.08
Term liabilities payable within	0.00	0.59	0.59	0.59	0.59	0.59
one year						
Other Current Liabilities (Tax	0.00	0.00	0.00	0.00	0.00	0.00
Prov.)	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.37	9.09	10.57	12.71	15.63	18.83
<u>ASSETS</u>					(8	Recillo Engine
Building & Civil works	2.85	2.85	2.85	2.85	2.85	2.85

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TOTAL	8.37	9.09	10.57	12.71	15.63	18.83
Total Current Assets	0.00	0.94	1.87	3.46	5.83	7.49
Cash & Cash Equivalent	0.00	0.56	0.99	2.44	4.66	6.27
Inventories	0.00	0.01	0.01	0.01	0.01	0.01
Trade Receivables	0.00	0.37	0.86	1.01	1.16	1.20
CURRENT ASSETS						
Total Non-Current Assets	8.37	8.15	8.70	9.25	9.79	11.34
Other Non-Current Assets	0.00	0.00	1.00	2.00	3.00	5.00
Net Block	8.37	8.15	7.70	7.25	6.79	6.34
Depreciation	0.00	0.22	0.67	1.12	1.58	2.03
Total Gross Block	8.37	8.37	8.37	8.37	8.37	8.37
Plant & Machinery	5.52	5.52	5.52	5.52	5.52	5.52

(Continued)

(INR Crores)

Parameter State St	Part of the latest and the	Market Balleton	(INR Crores				
		31-	31-	31-	31-		
Mar-31	Mar-32	Mar-33	Mar-34	Mar-35	Mar-36		
6	7	8	9	10	11		
12	12	12	12	12	12		
0.01	0.01	0.01	0.01	0.01	0.01		
16.81	21.27	26.11	31.30	36.88	42.85		
2.50	2.50	2.50	2.50	2.50	2.50		
2.34	1.76	1.17	0.59	0.00	0.00		
0.09	0.09	0.09	0.09	0.09	0.09		
0.50	0.50	0.50	0.50	0.50	0.00		
0.59	0.59	0.59	0.59	0.59	0.00		
0.00	0.00	0.00	0.00	0.00			
0.00	0.00	0.00	0.00	0.00	0.00		
22.34	26.21	30.47	35.08	40.07	45.45		
2.85	2.85	2.85	2.85	2.85	2.85		
5.52	5.52	5.52	5.52	5.52	5.52		
8.37	8.37	8.37	8.37	8.37	8.37		
2.48	2.93	3.38	3.84	4.29	4.74		
5.89	5.44	4.99	4.53	4.08	3.63		
8.00	12.00	16.00	20.00	24.00	28.00		
13.89	17.44	20.99	24.53	28.08	31.63		
1.25	1.30	1.34	1.39	1.45	1.50		
1.25 0.01	1.30 0.01	1.34 0.01	1.39 0.02	1.45 0.02	1.50 0.02		
0.01	0.01	0.01	0.02	0.02	0.02		
	0.01 16.81 2.50 2.34 0.09 0.59 0.00 22.34 2.85 5.52 8.37 2.48 5.89 8.00	Mar-31 Mar-32 6 7 12 12 0.01 0.01 16.81 21.27 2.50 2.50 2.34 1.76 0.09 0.09 0.59 0.59 0.00 0.00 22.34 26.21 2.85 2.85 5.52 5.52 8.37 8.37 2.48 2.93 5.89 5.44 8.00 12.00	Mar-31 Mar-32 Mar-33 6 7 8 12 12 12 0.01 0.01 0.01 16.81 21.27 26.11 2.50 2.50 2.50 2.34 1.76 1.17 0.09 0.09 0.09 0.59 0.59 0.59 0.00 0.00 0.00 22.34 26.21 30.47 2.85 2.85 2.85 5.52 5.52 5.52 8.37 8.37 8.37 2.48 2.93 3.38 5.89 5.44 4.99 8.00 12.00 16.00	Mar-31 Mar-32 Mar-33 Mar-34 6 7 8 9 12 12 12 12 0.01 0.01 0.01 0.01 16.81 21.27 26.11 31.30 2.50 2.50 2.50 2.50 2.34 1.76 1.17 0.59 0.09 0.09 0.09 0.09 0.59 0.59 0.59 0.59 0.00 0.00 0.00 0.00 22.34 26.21 30.47 35.08 2.85 2.85 2.85 5.52 5.52 5.52 5.52 5.52 8.37 8.37 8.37 8.37 2.48 2.93 3.38 3.84 5.89 5.44 4.99 4.53 8.00 12.00 16.00 20.00	Mar-31 Mar-32 Mar-33 Mar-34 Mar-35 6 7 8 9 10 12 12 12 12 12 0.01 0.01 0.01 0.01 0.01 16.81 21.27 26.11 31.30 36.88 2.50 2.50 2.50 2.50 2.34 1.76 1.17 0.59 0.00 0.09 0.09 0.09 0.09 0.09 0.59 0.59 0.59 0.59 0.59 0.00 0.00 0.00 0.00 0.00 22.34 26.21 30.47 35.08 40.07 2.85 2.85 2.85 2.85 2.85 5.52 5.52 5.52 5.52 5.52 8.37 8.37 8.37 8.37 8.37 2.48 2.93 3.38 3.84 4.29 5.89 5.44 4.99 4.53 4.08 <t< td=""></t<>		

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C. PROJECTED CASH FLOW STATEMENT:

(INR Crores)

V 5 11 /110 6 V	30-Sep-	31-Mar-	31-Mar-	31-Mar-	31-Mar-	31-Mar-
Year Ending (INR Crore)	25	26	27	28	29	30
Year Counter	0	1	2	3	4	5
Months Counter	6	6	12	12	12	12
A. SOURCE OF FUND						
Net Profit	0.00	0.68	2.03	2.72	3.50	3.79
Increase in Equity / Share Capital/USL	0.01	0.00	0.00	0.00	0.00	0.00
Increase in Unsecured Loan	2.50	0.00	0.00	0.00	0.00	0.00
Increase in TL	5.86	0.00	0.00	0.00	0.00	0.00
Depreciation	0.00	0.22	0.45	0.45	0.45	0.45
Trade payables		0.04	0.04	0.00	0.00	0.00
Total	8.37	0.94	2.52	3.18	3.96	4.24
B. APPLICATION OF FUNDS						
Capital Expenses	8.37	0.00	0.00	0.00	0.00	0.00
Decrease in Term Loan	0.00	0.00	0.59	0.59	0.59	0.59
Trade Receivable	0.00	0.37	0.50	0.14	0.15	0.04
Inventory	0.00	0.01	0.01	0.00	0.00	0.00
Other Non-Current Assets	0.00	0.00	1.00	1.00	1.00	2.00
Prelim. Expenses	0.00	0.00	0.00	0.00	0.00	0.00
Total	8.37	0.38	2.09	1.73	1.74	2.63
Opening Balance	0.00	0.00	0.56	0.99	2.44	4.66
Net Surplus/ Deficit	0.00	0.56	0.43	1.45	2.22	1.61
Cumulative Balance	0.00	0.56	0.99	2.44	4.66	6.27

(Continued)

(INR Crores)

Voor Ending (IND Cross)	31-Mar-	31-Mar-	31-Mar-	31-Mar-	31-Mar-	31-Mar-
Year Ending (INR Crore)	31	32	33	34	35	36
Year Counter	6	7	8	9	10	11
Months Counter	12	12	12	12	12	12
A. SOURCE OF FUND						
Net Profit	4.09	4.46	4.84	5.19	5.58	5.97
Increase in Equity / Share	0.00	0.00	0.00	0.00	0.00	0.00
Capital/USL						
Increase in Unsecured Loan	0.00	0.00	0.00	0.00	0.00	0.00
Increase in TL	0.00	0.00	0.00	0.00	0.00	0.00
Depreciation	0.45	0.45	0.45	0.45	0.45	0.45
Trade payables	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.54	4.91	5.30	5.65	6.03	6.42

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B. APPLICATION OF FUNDS						
Capital Expenses	0.00	0.00	0.00	0.00	0.00	0.00
Decrease in Term Loan	0.59	0.59	0.59	0.59	0.59	0.59
Trade Receivable	0.04	0.05	0.05	0.05	0.05	0.05
Inventory	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Current Assets	3.00	4.00	4.00	4.00	4.00	4.00
Prelim. Expenses	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.63	4.63	4.63	4.64	4.64	4.64
Opening Balance	6.27	7.18	7.46	8.13	9.14	10.53
Net Surplus/ Deficit	0.91	0.28	0.66	1.01	1.39	1.78
Cumulative Balance	7.18	7.46	813	9 14	10.53	12 31

D. KEY FINANCIAL RATIO:

YEAR	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031
EBITDA Margin %	48.52%	54.42%	57.77%	60.99%	62.25%	63.48%
EBIT Margin %	41.17%	47.97%	52.24%	56.19%	57.62%	59.02%
PAT Margin %	22.65%	28.89%	33.31%	37.19%	38.78%	40.30%
Revenue Growth Rate	-	134.38%	16.65%	15.22%	3.71%	3.72%

						(Continue	
YEAR	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036	Average	
EBITDA Margin %	65.61%	67.56%	68.86%	70.43%	71.84%	62.88%	
EBIT Margin %	61.31%	63.42%	64.86%	66.58%	68.13%	58.05%	
PAT Margin %	42.44%	44.42%	45.88%	47.52%	49.00%	39.13%	
Revenue Growth Rate	3.73%	3.73%	3.74%	3.75%	3.76%	19.24%	

E. GRAPHICAL REPRESENTATION OF KEY RATIOS:

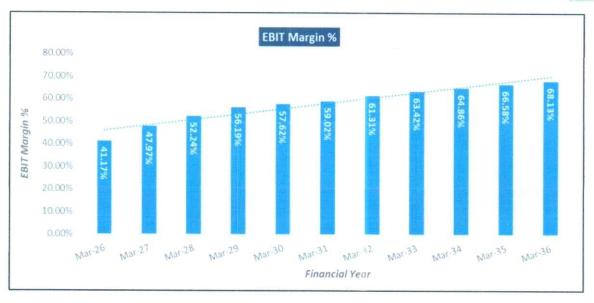


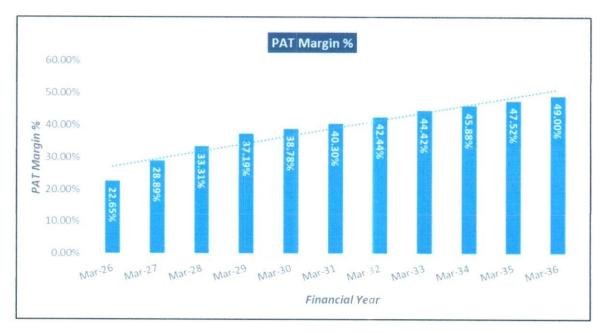
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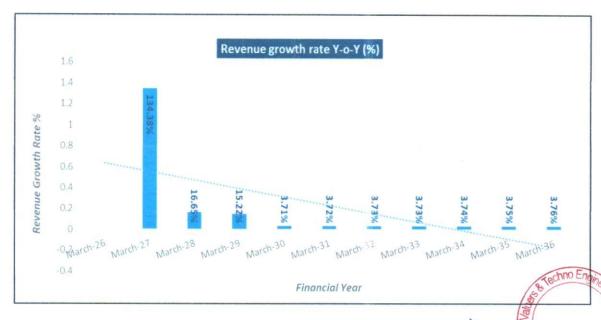
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REINFORCING YOUR BUSINESS ASSOCIATES VALUERS & TECHNO ENGINEERING CONSULTANTS (P) LTD. UNLIANDIC CENTRE OF CRECLERICE







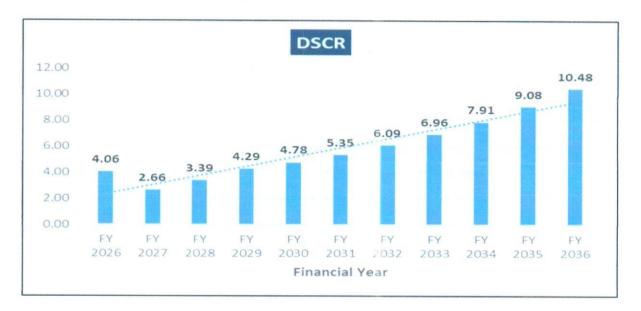




F. ESTIMATED KEY FINANCIAL METRICS:

DEBT SERVICE COVERAGE RATIO (DSCR)

Particulars	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35	FY36	Total
Cash accrual	0.90	2.48	3.18	3.96	4.24	4.54	4.91	5.30	5.64	6.03	6.42	47.59
Interest on term loan	0.29	0.56	0.50	0.44	0.38	0.32	0.26	0.21	0.15	0.09	0.03	3.22
Subtotal	1.19	3.03	3.67	4.40	4.62	4.86	5.18	5.50	5.79	6.12	6.45	50.81
Interest on term loan	0.29	0.56	0.50	0.44	0.38	0.32	0.26	0.21	0.15	0.09	0.03	3.22
Loan Repayment	0.00	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	5.86
Subtotal	0.29	1.14	1.08	1.03	0.97	0.91	0.85	0.79	0.73	0.67	0.62	9.08
DSCR	4.06	2.66	3.39	4.29	4.78	5.35	6.09	6.96	7.91	9.08	10.48	5.60
Average D.S.C.R.	5.60											
Max. D.S.C.R.	10.48											



G. SENSITIVITY ANALYSIS OF D.S.C.R:

The proposed project is found comparatively more sensitive with respect to the revenue, than the cost of raw material and any surge in the interest rate. Sensitivity analysis of the project with respect to 5% decrease in the revenue, 5% increase in the cost of raw material, 2% increment in the proposed interest rate and 5% decrease in generation has been shown in the below table:

Sensitivity Analysis of D.S.CR									
S. No.	Particular	Average D.S.C.R	Max. D.S.C.R						
1.	If the projected revenue decreased by 5%	5.18	9.77						
2.	If the projected Cost of raw material increased by 5%	5.55	10.42						
3.	If interest rate is increased by 2%	5.22	10.33						
4.	If the generation is decreased by 5%	5.25	9.89						

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M/S BLUELEO ENERGY PRIVATE LIMITED



NPV,IRR AND PAYBACK PERIOD OF THE PROJECT:

(INR Crores)

									_		,,,,,	
Particulars	Sep -25	Mar- 26	Mar- 27	Mar- 28	Mar- 29	Mar- 30	Mar- 31	Mar- 32	Mar-	Mar- 34	Mar- 35	Mar- 36
EBIT	0.00	1.23	3.36	4.27	5.29	5.63	5.98	6.45	6.92	7.34	7.82	8.30
Less: Taxes	0.00	0.34	0.94	1.19	1.47	1.57	1.66	1.79	1.92	2.04	2.17	2.31
Add: Depreciation & Amortisation	0.00	0.22	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45	0.45
NOPAT	0.00	1.11	2.88	3.54	4.27	4.52	4.77	5.10	5.44	5.75	6.09	6.44
Increase/(Decrease) in working capital		-0.34	-0.46	-0.14	-0.15	-0.04	-0.04	-0.05	-0.05	-0.05	-0.05	-0.05
Capex	-8.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Free Cash Flow to Firm (FCFF)	-8.37	0.77	2.42	3.40	4.12	4.47	4.73	5.06	5.40	5.70	6.04	6.39
Terminal Value												78.68
FCFF + TV	-8.37	0.77	2.42	3.40	4.12	4.47	4.73	5.06	5.40	5.70	6.04	85.07
WACC						10	28%					
Terminal Growth Rate		2.00%										
NPV		INR 15.81 Crores										
IRR						46.	69%					

Calculation of Discount Rate									
Particulars	Weight	Cost	Weighted Cost						
Equity	30.00%	10.77%	3.23%						
Debt	70.00%	10.00%	5.05%						
Total			8.28%						
Company Risk Premium			2.00%						
Appropriate Discount Rate			10.28%						

	Payback Period of t	he Project
Financial Year	Cash Accrual	Accumulated Cash Accrual
FY 2026	0.90	0.90
FY 2027	2.48	3.38
FY 2028	3.18	6.55
FY 2029	3.96	10.51
FY 2030	4.24	14.75
FY 2031	4.54	19.29
FY 2032	4.91	24.20
FY 2033	5.30	29.50
FY 2034	5.64	35.14
FY 2035	6.03	41.17
FY 2036	6.42	47.59
TPC	IN	IR 8.37 Crores
Payback Period		2.96 Years

Thus, the project will be having a payback period of 2.96 years and NPV & IRR of the project as on COD will INR 15.81 Crores & 46.69% respectively from C.O. to loan repayment period, which indicates worthiness of the project.

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I. OTHER FINANCIAL RATIOS:

Particulars	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Return on Capital employed (%)	14.55%	33.97%	35.49%	35.40%	31.00%
Return on Net Worth (%)	21.25%	38.85%	34.32%	30.63%	24.88%
DSCR	4.06	2.66	3.39	4.29	4.78
ISCR	4.20	6.04	8.58	12.05	14.79
Fixed Asset Coverage Ratio	1.04	1.29	1.66	2.20	2.86
Current Ratio	9.42	11.06	12.20	14.02	14.53
TOL/TNW	1.85	1.03	0.60	0.37	0.24
Debt to Equity Ratio	1.84	1.01	0.59	0.36	0.23

(Continue) **Particulars** FY 2031 FY 2032 FY 2033 FY 2034 FY 2036 FY 2035 Return on Capital Employed (%) 27.62% 25.24% 23.21% 21.33% 19.84% 18.29% Return on Net Worth (%) 21.15% 18.76% 16.92% 15.35% 14.16% 13.16% **DSCR** 5.35 6.09 6.96 7.91 9.08 10.48 **ISCR** 18.56 24.45 33.73 50.10 88.93 283.28 **Fixed Asset Coverage Ratio** 3.68 4.70 5.98 7.59 9.65 12.50 **Current Ratio** 14.36 14.88 15.43 15.26 15.82 16.40 TOL/TNW 0.16 0.10 0.06 0.04 0.02 0.00 **Debt to Equity Ratio** 0.15 0.10 0.06 0.03 0.01 0.00

J. BREAK-EVEN ANALYSIS:

(INR Crores) **Particulars** FY 2026 FY 2027 FY 2028 FY 2029 FY 2030 TOTAL SALES 2.99 7.01 8.18 9.42 9.77 LESS: VARIABLE COST 1.24 2.62 2.85 3.04 3.14 CONTRIBUTION 1.75 4.39 5.33 6.39 6.63 TOTAL FIXED COST 0.81 1.64 1.67 1.71 1.68 Profit / PBT 0.94 2.75 3.65 4.68 4.95 **PV RATIO** 58.61% 62.58% 65.14% 67.77% 67.84% **BEP Sales** 1.39 2.62 2.57 2.52 2.48 BEP% 46.47% 37.40% 31.40% 26.79% 25.33%

						(Continue
Particulars	FY 2031	FY 2032	FY 2033	FY 2034	FY 2035	FY 2036
TOTAL SALES	10.14	10.51	10.91	11.31	11.74	12.18
LESS: VARIABLE COST.	3.31	3.43	3.56	3.76	3.91	4.07
CONTRIBUTION	6.83	7.08	7.34	7.56	7.83	8.11
TOTAL FIXED COST	1.65	1.62	1.59	1.57	1.54	1.52
Profit / PBT	5.18	5.46	5.75	5.99	6.29	6.59
PV RATIO	67.37%	67.37%	67.34%	66.80%	66.70%	66.56%
BEP Sales	2.45	2.41	2.37	2.34	2.31	2.28Eng
BEP%	24.15%	22.89%	21.69%	20.72%	19.69%	18.72%
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K. TERM LOAN INPUTS:

Term Loan Repayment Inputs					
Total loan amount	INR 5,85,88,536.12				
Rate of Interest	10.00%				
1st Disbursement	April-25				
IDC Start & End Month	April-25 to September-25				
IDC Period (construction period)	6 Months				
Commencement /Operation Start	October-25				
Moratorium Start & End Month (only interest to pay)	April 2025 to March 2026				
Repayment Start	April 2026				
Repayment End	March 2036				
Repayment Period	120 Months				

(INR Crores)

	The same of the same of	A CHARLES OF THE PARTY OF	William House, Street, St.	Married Street, or other Desired			-	-		1	10103
YEAR/ASSET HEAD	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Opening Balance	-	5.86	5.27	4.69	4.10	3.52	2.93	2.34	1.76	1.17	0.59
Disbursement	5.86	-	-	-	-	-	-	-	-		
Repayment	-	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59	0.59
Closing balance	5.86	5.27	4.69	4.10	3.52	2.93	2.34	1.76	1.17	0.59	0.00
Interest	0.29	0.56	0.50	0.44	0.38	0.32	0.26	0.21	0.15	0.09	0.03
IDC	0.22	-	-	-	-	-	-	-	-		
Term Loan Interest	0.51	0.56	0.50	0.44	0.38	0.32	0.26	0.21	0.15	0.09	0.03

L. DEPRECIATION SCHEDULE (STRAIGHT LINE METHOD):

(INR Crores)

	NO PURE STATE OF THE PARTY OF T				(HALL CLOIGS
YEAR/ASSET HEAD	2026	2027	2028	2029	2030
Building	2.85	2.85	2.85	2.85	2.85
SLM Depreciation - Build	0.05	0.09	0.09	0.09	0.09
Plant & Machinery	5.52	5.52	5.52	5.52	5.52
SLM Depreciation - P&M	0.17	0.36	0.36	0.36	0.36
Total SLM Depreciation	0.22	0.45	0.45	0.45	0.45

(Continue)

YEAR/ASSET HEAD	2031	2032	2033	2034	2035	2036
Building	2.85	2.85	2.85	2.85	2.85	2.85
SLM Depreciation - Build	0.09	0.09	0.09	0.09	0.09	0.09
Plant & Machinery	5.52	5.52	5.52	5.52	5.52	5.52
SLM Depreciation - P&M	0.36	0.36	0.36	0.36	0.36	0.36
Total SLM Depreciation	0.45	0.45	0.45	0.45	0.45	0.45

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2. KEY ASSUMPTIONS & BASIS:

S. No.	Item	Assumptions and Basis					
		 a. The projections of the fit 2036, 11 years, to cover practices. It is assumed October 2026. b. We have considered both 	the term loan plant	period as per t will be achie	the industr	ry best on 1 st	
1.	General	 b. We have considered both Revenue & cost based model (top to bottom approach) while making the future financial projections. c. Revenue modelling has been done based on required production as per the LOI with the IOCL. Expense modelling has been done based on the capacity utilization during the respective year except for the raw material which is considered based on raw material ratio and its price as per the agreement with the seller. 					
		 a. The plant is assumed to be operational for 300 days for 24 hours annually. b. Company will be generating the revenue by selling 2.5TPD Bio-CNG to IOCL as per LOI issued by the OMC on 1st Jan 2025 and by-products (Briquettes). Below table shows the Revenue of the company @70% capacity utilization in the first operational year: 					
_	Revenue	Re	venue @70% cap	Annual			
2.	Build up	Products	Unit Price	Quantity (KG)	Amount (INR Cr.)		
		Sale of Bio-CNG	INR 74.29/Kg	2,65,446	1.97		
		Revenue – Briquettes	INR 8.00/Kg	13,27,083	1.02		
		Total Revenue (INR)			2.99		
-	c. Thus, the company is expected to generate INR 2.99 Crores (@ Capacity Utilization) in the initial year. Further it is expected to incre up to INR 12.18 Crores till FY 2035-36 (@ 100% Capacity Utilization) d. Based on the forecasting, the company is achieving an average reverse.						

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			growth rate of 20/ V a V hasia from 54	2025 26 due to a 204
			growth rate of 3% Y-o-Y basis from FY 2	2025-26 due to a 3% escalation
			assumed in the selling price during the fo	recasted period.
		e.	For the purpose of this exercise, we have	e assumed that the excess cash
			available with company will be deposited	I in fixed deposits with bank. We
			have assumed the company would ear	rn the interest income on this
			deposit @ 6% annually.	the morne on this
			deposit @ 0% armdany.	
		+		
		a.	Proposed selling price per unit of CBG ar	nd by products are shown in the
			below table:	
			Selling price per u	
				Unit prices
			Selling price of Bio-CNG	INR 74.29 per kg
			Selling price of Briquettes	INR 8.00 per kg
		b.	The Bio-CNG produced has to be sold	to Indian Oil Corporation Ltd
			stations situated within 25-75 km, for w	hich the company have already
			secured a purchase agreement/LOI (Ref N	No Indian Oil/SATAT/01/3961,
			Date: 1st Jan 2025), the procurement price	e of Bio-CNG from Indian Oil as
			per the SATAT Scheme is around @INR 74	
	Pricing			
	(Average	C.	The by-product of digestate is called Bior	mass Pellets (Briquettes), which
3.			is being sold in the current market at INR	8.00 per kg.
	Price Per			
	Unit)	d.	For biomass pellets with a GCV of 4,8	800 kcal/kg, the price can be
			calculated based on the benchmark rate	s. Using the Northern Region's
			rate of ₹2.27 per 1,000 kcal, the p	
			approximately ₹10.90 (₹2.27 × 4.8).	nice per knogram would be
			approximately \10.90 (\2.27 × 4.8).	
		e.	The selling price of Bio-CNG is considered	ed on conservative side as INR
			74.29/kg (excluding compression charges	
			Biomass Pellets (Briquettes) is assum-	ed as INR 8.00 per kg on
			conservative side.	
		f.	An escalation factor of 3% has been co	insidered in the prices of the
				1/2/
			sellable products during the forecasted	
			and macro-economic factors.	& Techno Engines
				18





4. Capacity Utilization Operating at 10 2,500 Kg Bio-C Synchronisatio a. We have assure (FY 2025-26), capacity utilisation	CBG generating plant will be commissioned which will be 20% (7,200 M3/Day) of the designed capacity to generate CNG per day as per tripartite agreement under CBG-CGD in Scheme under SATAT initiative. The med 70% capacity utilization in the first operational year then 80% and 90% for the next two years and 100% ation from the FY 2028-29 till the end of the projected 500 kg Bio CNG has to be supplied by the company.
b. The cost of I data/information plant & maching continued by the continued and estimate continued by the continued by the continued by the continued continued by the continued continued by the continued by the continued by the continued by the companion cost of set data/information (Reference: As present the cost of set data/information (Reference: As present th	Plant & Machinery has been considered as per the on shared by the client/company. The estimated cost for ery will be ~INR 5.12 crores including GST. Expenses has been taken as per the data/information company/client, based on the time period of construction of company's resources involvement during this time in nonitoring of the construction as INR 3.33 crores. Set of INR 0.39 crores (~5.00% of TPC) has been considered ral assumption. Interest during Construction will be paid till September 2025 by the company @ 10.00%. 5 Crore per ton including GST, transportation IDC, prepreliminary expenses etc. will be the capex for this which we found in the line with industrial and sectoral insidering the fact that the plant would be commissioned by itself from scratch to the successful trial run and the ting up the plant is taken as per the infoquotations provided by the client/company. The Ministry of New and Renewable energy, the approxating a 5 TPD capacity CBG plant is estimated between INR

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		machinery)			¥1			
		a. The cost o		erial @ 100	% capacity has	been shown in	the	
			Raw mate	rial Cost @ 1	100% capacity			
		Raw Mate	erial	INR/Kg	Annual Quantity (TPA)	Amount INR Crore		
		Napier Gr Transport	ass including	0.54	18,000	0.97		
		Total			INR 0.97 Crore			
		b. As per our	tertiary resea	rch and data	available in the	public domain,	, we	
		found the	unit rate are	in the perr	missible range.	Escalation of 59	% is	
		111111111111111111111111111111111111111	 considered every 3 years during forecasted period as per the long-term supply agreement with the farmer. c. Biomass Pellets (Briquettes) Processing and Packaging charges are considered as INR 2.25 and INR 0.40 respectively per kg of Briquettes produced during the year. An annual escalation rate of 3% has been considered. 					
6.	Expenses	considered produced						
		consumpti available o	on of the pov	wer will be omain and o	y the client, 4,87,440 Kwh. data shared by c An escalation ra	As per informa	atior able	
	2		A 10% escalation rate has been considered during the forecasted period on the salary & wages of the proposed manpower.					
		end of 15 through ar	Land has been procured for 15 years (with an option of renewal at the end of 15 years) on an annual lease rental of INR 2,99,988/annual through an executed lease deed on 23 rd September 2024 with an annual escalation rate of 5% every 3 years.					
		g. Cost for Transportation, Marketing & Selling Expenses, Overhead Expenses and Other Manufacturing Expenses are each considered as 1.5% of Operational Revenue respectively.						





		h.	The cost of Insurance is assumed as 0.25% of Net Block. Insurance covers CBG Plant and Facilities. Repair & Maintenance has been assumed @0.50% of the gross block and an annual escalation rate of 5% has been considered.
		a.	The project is proposed to be funded through a term loan of INR 5.86 crore, Promoter's Equity of INR 0.01 Crore and unsecured loan from promoters of INR 2.50 crores.
7.	Partial Loan	b.	The tenure of the loan will be 11 years from April 2025 to March 2036. The repayment period of the loan will be 120 months after moratorium period of 12 months. As per discussion with client, Interest rate has been considered as 10.00%.

Key Findings:

- Average DSCR, EBIDTA margin, EBIT margin is 5.60, 62.88%, and 58.05% respectively during the estimated period.
- 2. D.S.C.R of the proposed Bio CBG plant is found highly sensitive with respect to any downside fluctuation in the projected revenue.
- The project is having a positive NPV and IRR of INR 15.81 Crores and 46.69% respectively from C.O.D. to loan repayment period while it may vary with changes in the assumptions & micro and macro-economic trends considered as on date.
- 4. The proposed project is having a payback period of 2.96 years.
- 5. Based on the above key financial ratios of the proposed Project during the forecasted period shows that the project appears financially viable if the promoters of the project are able to maintain assumed capacity utilization, revenue and can contain cost as assumed above in the calculation.





PART N

CONCLUSION

Based on the technological, economical and market analysis done above, various assumptions of sectoral trends taken, product pricing to be adopted by the company, the Project appears to be Techno-commercially viable subject to the risks, threats, weaknesses, limitations of the product as detailed previously.

As per financial projections for the estimated period, Average DSCR, EBITDA Margin and EBIT Margin of the project are 5.60, 62.88%, and 58.05% respectively, where higher DSCR is the indicator of the project capability to pay out its outstanding debt and EBITDA margin shows the capability of the project to generate the operating profits over the forecasted period. Also, the project is having the payback period of 2.96 Years in the line with sectoral trends.

The proposed Bio-CNG generating facility is having a positive **NPV and IRR** as **INR 15.81 Crores** & **46.69**% respectively from C.O.D till loan repayment period as the industry is expectedly growing at a CAGR of 6.34% during the forecasted period. While it is not avoidable that the future projections may change in the upcoming years due to various factors impacting the operation, managerial, financial efficiency and economies of scale of the project.

While it would be depending on the management's capability in future that how efficiently company adopts marketing and advertisement strategy, supply chain and carry out inventory & resource management to achieve higher profitability. After considering the foreseen demand of the Bio CNG and its by-products domestically and globally, various initiatives taken by the government, financial analysis of the project based on the assumptions taken over the projected period, it appears reasonable to comment that the proposed project is "Technically and Economically" Viable subject to current assumptions considered and occurring the same in the upcoming years same as the forecasted period which is dependent on the sincerity and efforts of the management and various micro and macroeconomic & industry situation.

We have tried our level best to analyse the Project techno-economic feasibility of the Project based on the Industry research, Project information and various futuristic assumption taken within the limitations and challenges came in front of us. However achieving the financial milestones depends on the ability, sincerity and efforts of the company, promoters and its key management to maintain the projected revenue level Y-o-Y basis keeping the fact in mind that the project is found sensitive with respect to the down side fluctuation in the revenue.

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	i. The undersigned does not have any direct/indirect interest in the
	above property/project/Company.
	ii. The information furnished herein is true and correct to the best of our
	knowledge, logical and scientific assumptions.
	iii. This TEV Report is carried out by our Financial Analyst team on the
	request from M/s Blueleo Energy Private Limited.
Declaration	iv. Meeting of Financial projections will be subject to the market &
	economy stability factors, judicious business operations and proper &
e e	timely implementation of the project and putting proper plan for
	achieving high productivity, efficiency and achieving cost saving
	benefits to increase profitability.
	v. We have submitted TEV report to client.
Number of Pages	81
in the Repost	01
Enclosed	Disclaimer & Remarks 74-77
Documents	Discialifier & Refilates (4-1)
Place	Noida
Date	5 th March 2025

M/S. R.K. ASSOCIATES VA	FOR ON BEHALF OF M/S. R.K. ASSOCIATES VALUER & TECHNO ENGINEERING CONSULTANTS PVT. LTD.					
SURVEYED BY	PREPARED BY	REVIEWED BY				
Mr. Anuj Sharma	Mr. Rachit Gupta	Mr. Gaurav Kumar				
X	Jan	2				







PARTO

DISCLAIMER | REMARKS

- No employee or member of R.K Associates has any direct/ indirect interest in the Project.
- 2. This report is prepared based on the copies of the documents/ information which the Bank/ Company has provided to us out of the standard checklist of documents sought from them and further based on our assumptions and limiting conditions. The client/owner and its management/representatives warranted to us that the information they supplied was complete, accurate and true and correct to the best of their knowledge. All such information provided to us has been relied upon in good faith and we have assumed that it is true and correct in all respect. I/We shall not be liable for any loss, damages, cost or expenses arising from fraudulent acts, misrepresentations, or wilful default on part of the owner, company, its directors, employee, representative or agents. Verification or cross checking of the documents provided to us from the originals or from any Govt. departments/ Record of Registrar has not been done at our end since this is beyond the scope of our work. If at any time in future, it is found or came to our knowledge that misrepresentation of facts or incomplete or distorted information has been provided to us then this report shall automatically become null & void.
- 3. Legal aspects for e.g. investigation of title, ownership rights, lien, charge, mortgage, lease, sanctioned maps, verification of documents, etc. have not been done at our end and same has to be taken care by legal expert/ Advocate. It is assumed that the concerned Lender/ Financial Institution has satisfied them with the authenticity of the documents, information given to us and for which the legal verification has been already taken and cleared by the competent Advocate before requesting for this report. I/ We assume no responsibility for the legal matters including, but not limited to, legal or title concerns.
- 4. This report is a general analysis of the project based on the scope mentioned in the report. This is not an Audit report, Design document, DPR or Techno feasibility study. All the information gathered is based on the facts seen on the site during survey, verbal discussion & documentary evidence provided by the client and is believed that information given by the company is true best of their knowledge.
- This Techno Economic-Viability study is prepared based on certain futuristic assumption
 which are intra dependent on economic, market and sectorial growth condition in future and
 socio-economic, socio-political condition at macro and micro level.

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- Meeting of assumption and financial ratio will entirely depend on the sincerity and efforts of the company, promoters and its key managerial performance.
- 7. All observations mentioned in the report is only based on the visual observation and the documents/ data/ information provided by the client. No mechanical/ technical tests, measurements or any design review have been performed or carried out from our side during Project assessment.
- 8. This report has been diligently prepared by our techno-financial team to the best of their ability. However, it's important to note that the recommendations provided in this Total Economic Viability (TEV) assessment do not imply an endorsement, validation, or certification of the accuracy or completeness of the disclosed information by the involved stakeholders. Furthermore, we do not claim or endorse that the opinions presented herein are the sole best course of action for decision-makers to follow. There may exist additional approaches and inputs that have not been covered within this report or fall outside the scope of this report.
- 9. Bank/FII should ONLY take this report as an Advisory document from the Financial/ Chartered Engineering firm and its specifically advised to the creditor to cross verifies the original documents for the facts mentioned in the report which can be availed from the borrowing company directly.
- 10. In case of any default in loans or the credit facility extended to the borrowing company, R.K Associates shall not be held responsible for whatsoever reason may be and any request for seeking any explanation from the employee/s of R.K Associates will not be entertained at any instance or situation.
- 11. The documents, information, data provided to us during the course of this assessment by the client are reviewed only up to the extent required in relation to the scope of the work. No document has been reviewed beyond the scope of the work.
- 12. This report only contains general assessment & opinion as per the scope of work evaluated as per the information given in the copy of documents, information, data provided to us and/ and confirmed by the owner/ owner representative to us at site which has been relied upon in good faith. It doesn't contain any other recommendations of any sort including but not limited to express of any opinion on the suitability or otherwise of entering into any transaction with the borrower.
- 13. We have relied on data from third party, external sources & information available on public domain also to conclude this report. These sources are believed to be reliable and therefore,

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we assume no liability for the truth or accuracy of any data, opinions or estimates furnished by others that have been used in this analysis. Where we have relied on data, opinions or estimates from external sources, reasonable care has been taken to ensure that such data has been correctly extracted from those sources and /or reproduced in its proper form and context, however still we can't vouch its authenticity, correctness or accuracy.

- 14. This Report is prepared by our competent technical team which includes Engineers and financial experts & analysts.
- 15. This is just an opinion report and doesn't hold any binding on anyone. It is requested from the concerned Financial Institution which is using this report for taking financial decision on the project that they should consider all the different associated relevant & related factors also before taking any business decision based on the content of this report.
- 16. All Pages of the report including annexure are signed and stamped from our office. In case any paper in the report is without stamp & signature then this should not be considered a valid paper issued from this office.
- 17. Though adequate care has been taken while preparing this report as per its scope, but still we can't rule out typing, human errors, over sightedness of any information or any other mistakes. Therefore, the concerned organization is advised to satisfy themselves that the report is complete & satisfactory in all respect. Intimation regarding any discrepancy shall be brought into our notice immediately. If no intimation is received within 15 (Fifteen) days in writing from the date of issuance of the report, to rectify these timely, then it shall be considered that the report is complete in all respect and has been accepted by the client up to their satisfaction & use and further to which R.K Associates shall not be held responsible in any manner.
- 18. Defect Liability Period is 15 DAYS. We request the concerned authorized reader of this report to check the contents, data and calculations in the report within this period and intimate us in writing if any corrections are required or in case of any other concern with the contents or opinion mentioned in the report. Corrections only related to typographical, calculation, spelling mistakes, incorrect data/ figures/ statement will be entertained within the defect liability period. Any new changes for any additional information in already approved report will be regarded as additional work for which additional fees may be charged. No request for any illegitimate change in regard to any facts & figures will be entertained.
- 19. R.K Associates encourages its customers to give feedback or inform concerns over its services through proper channel at valuers@rkassociates.org in writing within 15 days of report delivery. After this period no concern/ complaint/ proceedings in connection with the

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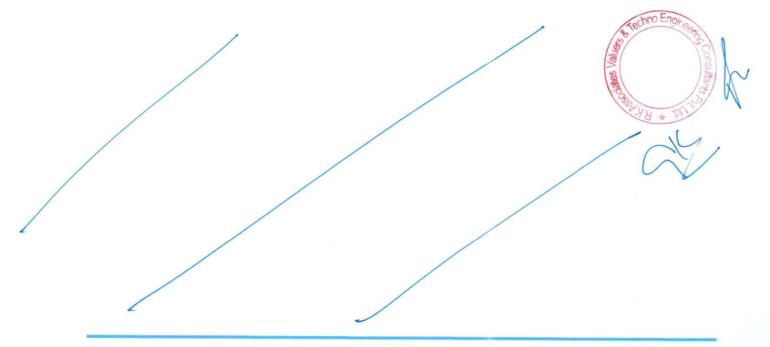
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Techno- Economic Viability Study Services will be entertained due to possible change in situation and condition of the subject Project.

- 20. Our Data retention policy is of ONE YEAR. After this period, we remove all the concerned records related to the assignment from our repository. No clarification or query can be answered after this period due to unavailability of the data.
- 21. This Techno Economic Viability Study report is governed by our (1) Internal Policies, Processes & Standard Operating Procedures, (2) Information/ Data/ Inputs given to us by the client and (3) Information/ Data/ Facts given to us by our field/ office technical team. Management of R.K Associates never gives acceptance to any unethical or unprofessional practice which may affect fair, correct & impartial assessment and which is against any prevailing law. In case of any indication of any negligence, default, incorrect, misleading, misrepresentation or distortion of facts in the report then it is the responsibility of the user of this report to immediately or at least within the defect liability period bring all such act into notice of R.K Associates management so that corrective measures can be taken instantly.
- 22. R.K Associates never releases any report doing alterations or modifications from pen. In case any information/ figure of this report is found altered with pen then this report will automatically become **null & void**.
- 23. If this report is prepared for the matter under litigation in any Indian court, no official or employee of R.K Associates will be under any obligation to give in person appearance in the court as a testimony. For any explanation or clarification, only written reply can be submitted on payment of charges by the plaintiff or respondent which will be 10% of the original fees charged where minimum charges will be Rs. 15,000/.





TECHNO-ECONOMIC VIABILITY REPORT

M/S BLUELEO ENERGY PRIVATE LIMITED



EXTRACTS OF IMPORTANT STATUTORY APPROVALS PROVIDED BY THE CLIENT

Will be (3)

Government of India

Registration Number : 36AALCBS678H1Z1

BLUELEO ENERGY PRIVATE LIMITED BLUELEO ENERGY PRIVATE LIMITED Legal Name Trade Name, if any Additional trade names, if Constitution of Business Address of Principal Place of Business Building No./Flat No.: Villa-589
Name Of Premises/Building: My Home Ankura
Road/Street: Tellapur
Locality/Sub Locality: Ramachandrapuram
City/Town/Village: Hyderabad
District: Sangareddy
State: Telangana
PIN Code: 502032 Date of Liability Date of Validity 13/01/2024 Not Applicable Type of Registration Regular Particulars of Approving Validity unk DESCRIPTION OF THE PARTY OF THE Name Designation Jurisdictional Office Date of issue of Certificate Note: The registration certific d to be prominently displayed at all places of Business/Office(s) in the

This is a system generated digitally signed Registration Certificate issued based on the deemed approval of application on 24/12/2024.



MINISTRY OF CORPORATE AFFAIRS

Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that BLUELEO ENERGY PRIVATE LIMITED is incorporated on this. TWENTY FIRST day of AUGUST TWO THOUSAND TWENTY THREE under the Companies Act, 2013 (18 of 2013) and that the company is Company limited by

The Corporate Identity Number of the company is U20111TS2023PTC176291

The Permanent Account Number (PAN) of the company is AALCB8678H*

The Tax Deduction and Collection Account Number (TAN) of the company is HYDB13425G*

Given under my hand at Manesar this. TWENTY FIRST day of AUGUST, TWO THOUSAND TWENTY THREE

Digitally signed to DE GORPORATE AFFAIRS 10 Date: 2023.08.21 17:26.06 IST

PRAMOD MEENA

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

solaimer. This certificate only evidences incorporation of the company on the basis of documents and declarations of the plicantis). This certificate is neither a license nor permission to conduct bus ness or solicit deposits or funds from public, mission of sector regulator is necessary wherever required. Registration status and other details of the company can be nified on mica.gov.in.

It is a per record available in Registrar of Companies office:

BLUELEO ENERGY PRIVATE LIMITED

Sy No 58, Bhagayath, Vinobanagar, Sagar Road, Ibrahimpatnam (K. V.Rangareddy), Ibrahimpatnam, K. V.Ra. 50 1506, Telangana

'as issued by Income tax Department

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TECHNO-ECONOMIC VIABILITY REPORT

M/S BLUELEO ENERGY PRIVATE LIMITED







स्थायी लेखा संख्या कार्ड Permanent Account Number Card

AALCB8678H

नाम / Name BLUELEO ENERGY PRIVATE LIMITED

निगमन/गठन की तारीख Date of Incorporation/Formation 21/08/2023

भारत सरकार GOVT. OF INDIA



18122023



తెలంగాణ तेलंगाना TELANGANA

True 10: 240400132324134334 Dare 86 AFR 2024, 01:25 PM Purchased By: D ADSTYA REVANTH Su D RAGBIAVA SHARMA R = BYD For Whom: BD 099770

EGNINA VANI KANCHETI
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H. NO. 14G 76, NIAR ARIO
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COLONY, BYASE 1, KPHB
COLONY, BYASE 1, KPHB
COLONY, RUKAHTMALY,
MEDCHAL MALKAJGRI DEST
PS 54550-0229

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is made and executed on the 06th day of April, 2024 at Hyderabad by and between:

Mr. ANIL REDDY GOUREDDYGARI, S/o GOUREDDYGARI LINGA REDDY, aged about 52 years, R/o 1001/A1/1, 1002/A. Khadeerabad, Sanga Reddy, Telangana - 502270, Presently residing at: 3349N Chatham Road, Apt#D, Ellicott City, MD - 21042, USA

Rep. by GPA Holder:

Mr. G. VIJAYA BHASKER REDDY, S/o ĠOUREDDYGARI LINGA REDDY, aged about 56 years, R/o 1001/A1/1, 1002/A. Khadeerabad, Sanga Reddy, Telangana - 502270

(Hereinafter called the FIRST PARTY)

AND

M/s. BLUELEO ENERGY PVT. LTD., Rep. by D. ADITYA REVANTH having its office at: Flat No. 601, Block-A, Aditya Imperial Heights, Hafeezpet Hyderabad, T.S. - 500049

(Hereinaster called the SECOND PARTY)

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TECHNO-ECONOMIC VIABILITY REPORT ASSOCIATES

M/S BLUELEO ENERGY PRIVATE LIMITED





Government of Telangana Tahsildar & Jt. Sub Registrar Office, Hathnoor

NALA Order Shalldar Hall ar Hartingor Mandal Sangareddy District Proceedings of the Competent Authority & Taheilda

Present:

Farheen Shaik 2500107341

Proedgs. No. Sub:

NALA Order

Bet-

SAN DIST Order:

Dated: 21/02/2025

Sn ని6 సెక్ట్ గారి లెంలన్ రెక్ట్ లింగారెక్ట్ R/o Kasal, Hathnoor, Sangareddy has applied for conversion of agriculture land situated in Sy.No 686/e extent 2.0600 of Kasal Village, Hathnoor Mandal, Sangareddy District for the purpose of Non- Agriculture. The request of the applicant is found to be consistent with the provisions of the Act. nce, the permission is hereby accorded for conversion of the Agricultural Land into Non-Agricultural purpose on the lowing terms and conditions:

n is issued on the request of the applicant and he is solelly responsible for the contents made in the

The permission is issued on the request of the applicant and he is solely responsible for the contents made in the application;
The proposed land transfer is not in contravention of the following Laws:

a. The Telangana Land Reforms (Ceiling on Agricultural Holdings) Act. 1973

b. The Telangana Scheduled Area Land Transfer Regulation, 1959

c. The Telangana Assigned Lands (Prohibition of Transfers Act), 1977

The grant of permission can not be construed that the contents of the application are ratified or confirmed by the authorities under the Act.

The permission confirms that the conversion fee has been paid under the Act in respect of above Agricultural lands for the limited purpose of conversion into Non-Agricultural purpose. It does not confer any right, title or ownership to the applicant over the above Agricultural Lands. This permission does not preclude or restrict any authority or authorities or any person or persons or any Individual or individuals Or others, collectively of severally; for initiating any action or proceedings under any law for the time being in force.

individuals Or others, collectively of severally, for influency any decided any circumstances.

The conversion fee paid will not be returned or adjusted otherwise under any circumstances.:

The authorities are not responsible for any incidental or consequential actions or any loss occurred to any body or caused otherwise due to or arising out of such permission granted on any false declaration, claim or deposition made by the applicant.

The authorities reserve the right to cancel the permission if it is found that the permission is obtained by fraud, misrepresentation or by mistake of fact.

Tahsildar & Jt. Sub Registrar Office, Hathnoor TAHSILDAR

HATHNOORA MANDAL Dist. Sangareddy

Dated: 21/02/2025

SLNo Total extent (Sy.No. wise) Extent for which permission granted. Village Mandal & District Sy.No. Remarks Kasal , Hathnoor & Sangareddy 686/es 2.0600 1.3800

> Chromiest of Teleograpa att. Sub Register Office, Hathnoor MALA Graor

3 Proceedings of the Competent Authority & Hidar Hathodor Manday Sangareddy District

Present: Farheen Shalk

Sri గారి రెడ్డి గారి రహిందర్ రెడ్డి

Schedule

Proedgs. No. 2500015292 Sub: NALA Order

Ret:

Order:

To

Schedule

Sri magma domag

Hence, the permission is hereby accorded for conversion of the Agricultural Land into Non-Agricultural purpose on the following terms and conditions:

1. The permission is issued on the request of the applicant and he is solely responsible for the contents made in the application;
2. The proposed land transfer is not in contravention of the following Laws:

a. The Telangana Land Reforms (Ceiling on Agricultural Holdings) Act, 1973

b. The Telangana Scheduled Area Land Transfer Regulation, 1959

c. The Telangana Assigned Lands (Prohibition of Transfers Act), 1977

3. The grant of permission can not be construed that the contents of the application are ratified or confirmed by the authorities under the Act.

4. The permission confirms that the conversion fee has been paid under the Act in respect of above Agricultural tands for the limited purpose of conversion into Non-Agricultural purpose.

5. It does not confer any right, title or ownership to the applicant over the above Agricultural Lands.

6. This permission does not preclude or restrict any authority or authorities or any person or persons or any individuals or individuals Or others, collectively of severally; for initiating any action or proceedings under any law for the time being in force.

7. The conversion fee paid will not be returned or adjusted otherwise under any circumstances::

in force.
The conversion fee paid will not be returned or adjusted otherwise under any circumstances;
The authorities are not responsible for any incidental or consequential actions or any loss occurred to any body or caused otherwise due to or arising out of such permission granted on any false declaration, claim or deposition made by the applicant.
The authorities reserve the right to cancel the permission if it is found that the permission is obtained by fraud, misrepresentation or by mistake of fact. ho

Tahsildar & Jt. Sue Begistrer Office, Hathand SILDAR

HATNHOORA MANDAL

Dist. Sangareddy

Total extent (Sy.No.

Extent for which permission granted. SI.No. Village Mandal & District Sv.No. Kasal , Hathnoor & Sangareddy 0.1600 685/1/1/1/1/1 0.1600



PO Tenure



Purchase Order : 36BHTPS5811C1Z3 Sreence Green Energies (Regd.Office) : PO/FY-24-25/01 PO No. H No.1-2/15, Lakeview Enclave Colony, Miyapur, : 27.12.2024 PO Date : 500 MT PO Onty : Immediately MSME Regd No.: UDYAM-TS-09-0035800 Delivery Schedule : 1 Week Credit E-mail: sreeneegreenene gies@gmail.com Payment Terms

: Upto 31st March 2025

Contact: Mr.S.S.Rao., ssrao@sreeneegreen.in Offices To

M/s BLUELEO ENERGY PVT LTD.,

4.Silicon Valley, Madhapur

Hyderabad-500020

Hyderabad-500049, T.S.

Mobile: +91 99820 47990

Kind Attn Mr. Aditya Revanth-COO, Director

SL. No.	Description	HSN Code	Unit Price / MT	CGST		SGST		IGST		Total
				Rate %	Amount	Rate %	Amount	Rate	Amount	rotar
1	Biomass Briquettes	440110	8000,00	2.5%	200.00	2.5%	200.00			8,400.0
	Quality Parameters:									
	GCV:3800 Kcal/K ₂									
	Ash less than 8%									
	Moisture less than 10%									
	RM:Sawdust/Granulated									
					Grand	Total	Rs.(inclu	ding	GST) 8	3400/-PMT
Acce	epted price is lancing cost at o	ur Digwal wo	orks		Grand	Total	Rs.(inclu	ding	GST) 8	8400/-PMT
	Firm Account Details		1	fied that					GST) 8	6400/-PMT
Acco	Firm Account Details unt Name: Sreence Green Energies		1	fied that	the partic	ulars giv		re true		
Acco	Firm Account Details		1	fied that	the partic	ulars giv	en above a	re true		
Leco Leco	Firm Account Details unt Name: Sreence Green Energies unt Type: Current Account		1	fied that	the partic	ulars giv	en above a	re true		
Accor Bank Branc	Firm Account Details unt Name: Sreence Green Energies unt Type: Current Account Name: ICICI BANK		1	fied that	the partic	ulars giv	en above a	re true		

