

**AUTONOMOUS** 

(Reaccredited with 'A' Grade by NAAC)
Affiliated to University of Kerala



7.1.3 Biogas Plant Report

IQACINTERNAL QUALITY
ASSURANCE CELL

# PROJECT REPORT FOR SETTING UP OF A BIOMETHANATION PLANT (BIOGAS PLANT) – FOOD WASTES

## Title of the project

Scientific, hygienic disposal of organic wastes, both of plant and animal origin, generation of Biogas and nutrient-rich organic manure and generation of electrical energy using biogas run IC engine generator.

### **Technology Dissemination**

Jyothi Biogas & Rural Social Service centre, Chemboor, Trivandrum.

### Process / Technology

Biomethanation of wastes from plant and animal origin occurs when these wastes are kept in oxygen deprived conditions. The waste treatment plant proper where biomethanation takes place, comprise of the waste digester and the biogas storage space in a single masonry – RCC structure. To hasten the acidifying and methanation process suitable preconditioners are employed.

#### **BIOGAS**

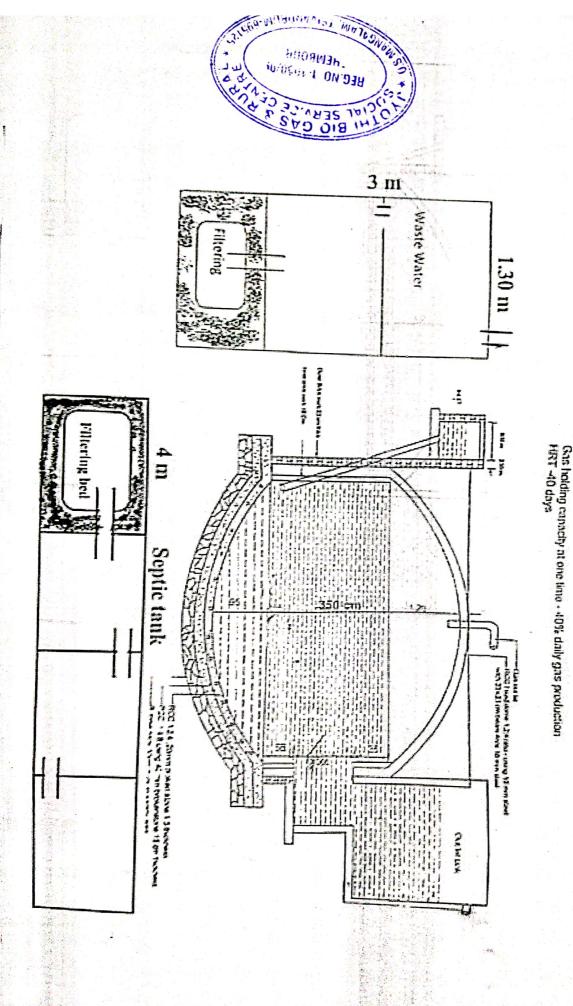
Biogas is an effective fuel for cooking and running IC engines. Biogas is a mixture of methane and carbon dioxide. Hydrogen sulphide, Hydrogen and other gases in very small quantities may also be present in Biogas. It is the methane gas which makes Biogas a valuable fuel. The more the methane content, the more useful and effective will be Biogas.

## Comparison between Biogas and LPG

A 500 Kg per day capacity Biogas plant produces approximately 40 m3 (40,000 ltr) of Biogas per day when feed with 500 kg waste. Out of this 8000 ltr Biogas will be stored in the gas storage space of the plant. If needed additional biogas storage facility may be constructed.

40 m3 Biogas is equal to 17.33 kg of LPG (Butane)





MNES APPROVED FIXED DOME BIOGAS PLANT BASED ON NIGHT SOIL - ALL BIODEGRADABLE WASTE 100 Kg

Scanned with CamScanner

## CLETUS JOSEPH & CO. CHARTERED ACCOUNTANTS

E/II-07- Bishop Jerome Nagar Commercial Complex Kollam-691 001



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0474-2723167 (R) 98477 29375 (M)

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cletusfca@gmail.com

#### **AUDIT REPORT**

We have verified the attached Income and Expenditure Account for the period from 07.03.2018 to 31.05.2019 and the Balance Sheet as at 31<sup>st</sup> May 2019 of **Fatima Mata**National College Parents Teachers Association, Kollam and report that the above Income and Expenditure Account and Balance Sheet are in agreement with the Books of Accounts produced before us subject to the following:

Assistance to Guest Lecturers as per last B/S of Rs.18, 31,450/- is outstanding, but no recovery has been made during the year. Hence the matter may be looked into and necessary decision may be taken.

Place : Kollam

Date: 04.06.2019

For CLETUS JOSERN & Co.

CLETUS JOSEPH, B. COM, F.C.A., DISA (ICA)

M No. 202381

#### FATIMA MATA NATIONAL COLLEGE PARENTS TEACHERS ASSOCIATION KOLLAM

#### RECEIPTS & PAYMENTS ACCOUNTS FOR THE PERIOD FROM 07.03.2018 TO 31.05.2019

RECEIPTS		AMOUNT	PAYMENTS	AMOUNT
To Opening Balance: Fixed Deposits: Rt.Rev.Dr. Joseph G. Fernance Golden Jubilee Fund Rt.Rev.Dr. Jerome Debate Fund Rt.Rev. Dr. Stanly Roman Episcopial Ordination Memorial Scholarship Fund FMNC Staff Cooperative Bank Fixed Deposit: FD.No17531	1,00,000.00 1,00,000.00		By Travelling Expenses  Printing & Stationery Postage & Telephone P.T.A. Executive Committee Meetings Bishop Jerome Paper Presentation Competition NSS Audit fees Club Activities Financial assistance to students Renovation of Latrine Merit Day Expenses Staff Salary & Allowance	2,000.00 50,077.00 820.00 6,187.00 97,623.00 40,000.00 4,000.00 9,000.00 5,000.00 43,635.00 50,000.00
FD.No17532 South Indian Bank SB A/C No. 12831 Cash in hand  " New Admission :- Donation & Membership Less: Refunded to Students Left With TC	27,157.00 3,86,424.00 9,610.00 46,78,400.00 1,85,200.00	3,61,661.00 3,96,034.00 44,93,200.00	" Refreshment for new Admission Guest Lecture & Non Teaching Staff Salary Annual General Body Meeting Donation & Charity Arts Day Induction Day Departmaent Fund Yoga class Hospitality Miscellaneous Expenses Bank Charges Science conference	35,912.00 5,22,000.00 21,962.00 35,815.00 10,000.00 44,115.00 2,33,084.00 6,000.00 13,000.00 1,990.00 98.40 15,630.00



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			" Metreculation Fee		55,000.00
" Bank Interest:			" Biogas Plant for Canteen		2,76,900.00
FD A/C	1,56,543.00		" Student welfare		30,000.00
SB A/C	21,884.00	1,78,427.00	" IQAC		50,000.00
			" Seminar		19,014.00
			" Skill Enhancement		2,000.00
" Guest Lecture Loan Refund		20,10,000.00	" Table cloth, Cup & Saucer and Gl	ass	9,552.00
		,,	" Maintenance for Napkin		15,700.00
			" Butterfly Garden		3,11,513.00
			" Schlorship & Award		89,750.00
			" K.U Youth Festival		75,000.00
			" Napkin Vending Machine		36,500.00
			" Loan to Guest Lecturers		25,00,000.00
			" Closing Banlance:		
			Fixed Deposit with FMNC Staff Cooperative Bank		
			Rt.Rev.Dr. Joseph G. Fernandez		
			Golden Jubilee Fund	1,00,000.00	
			Rt.Rev.Dr. Jerome Debate	1,00,000.00	
			Fund	.,,	
			Rt.Rev. Dr. Stanly Roman		
			Episcopial Ordination		
			Memorial Scholarship Fund	1.00.000.00	
			Other Fixed Deposit:	21,90,610.00	
			South Indian Bank SB A/C No.12831		
			SB A/C No. 12831	37,209.60	
			Cash in hand	3,625.00	25,31,444.60
			_	0,020.00	20,01,144.00
Total	_	74,39,322.00	Total	_	74.39,322.00
		,,-	. Star	=	14,55,322.00

KOLLAM 691001. CLETUS JOSEPH-B-COMF.CA, DISA(ICA)