



**CRITERION 7 – INSTITUTIONAL VALUES AND SOCIAL RESPONSIBILITIES**

**KEY INDICATOR 7.1**

**7.1.3: Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste:**

Certified that the following Documents and photos showing the facilities in the Institution for the management of the types of degradable and non - degradable waste.

**a) SOLID WASTE MANAGEMENT:**

- In the University campus, the solid wastes are categorized as biodegradable and non-biodegradable and the same are accumulated at different collection bins, the persons from the local municipal administration collect the solid wastes twice in a week.
- The food wastes are used for bio gas plant installed in the Hostel.
- The paper wastes generated from different offices and Departments of the University are disposed once in three months through auction.
- All the others kinds of scraps such as wooden material, plastics, steels, materials are disposed by Scraps Disposal Committee of the University once in three months.

**b) LIQUID WASTES:**

- The University makes sure that the use of water is optimized by all the Departments and offices. The liquid wastes from the rest rooms and wash rooms of the hostel, administrative building and academic building, quarters etc., are reused for watering the plants and trees planted in the nearby area of the respective buildings. In order to avoid the wastages of water, the plumbers of the Estate Office check the pipe lines and taps regularly to arrest water leakages if any. Thereby, it is made sure the water is efficiently used.
- The drinking water facilities are very well taken care of and thereby, it is ensured that no drinking water is wasted in the campus. Drinking water provisions have been given

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Tamilnadu Physical Education  
and  
Sports University  
Chennai - 600 127.**



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in all the sections of the offices and all the Departments for fulfilling the need of staff and students.

### c) E-WASTES MANAGEMENT

- The University makes sure that the e-wastes are disposed safely by following the Standard Operation Procedures. The e- wastes such as computers, monitors, printers, televisions, etc, accumulated from different Departments and offices of the University are kept safely and disposed as per the guidelines prescribed by the Pollution Control Board.

### d) WASTE RECYCLING SYSTEM

The University has a 2.0 M<sup>3</sup>/Day Biogas Pant out of food waste of 20 kg /day installed in the hostel mess of the University.

## PLACEMENT OF GREEN BASKETS FOR GARBAGE COLLECTIONS AT BUILDINGS





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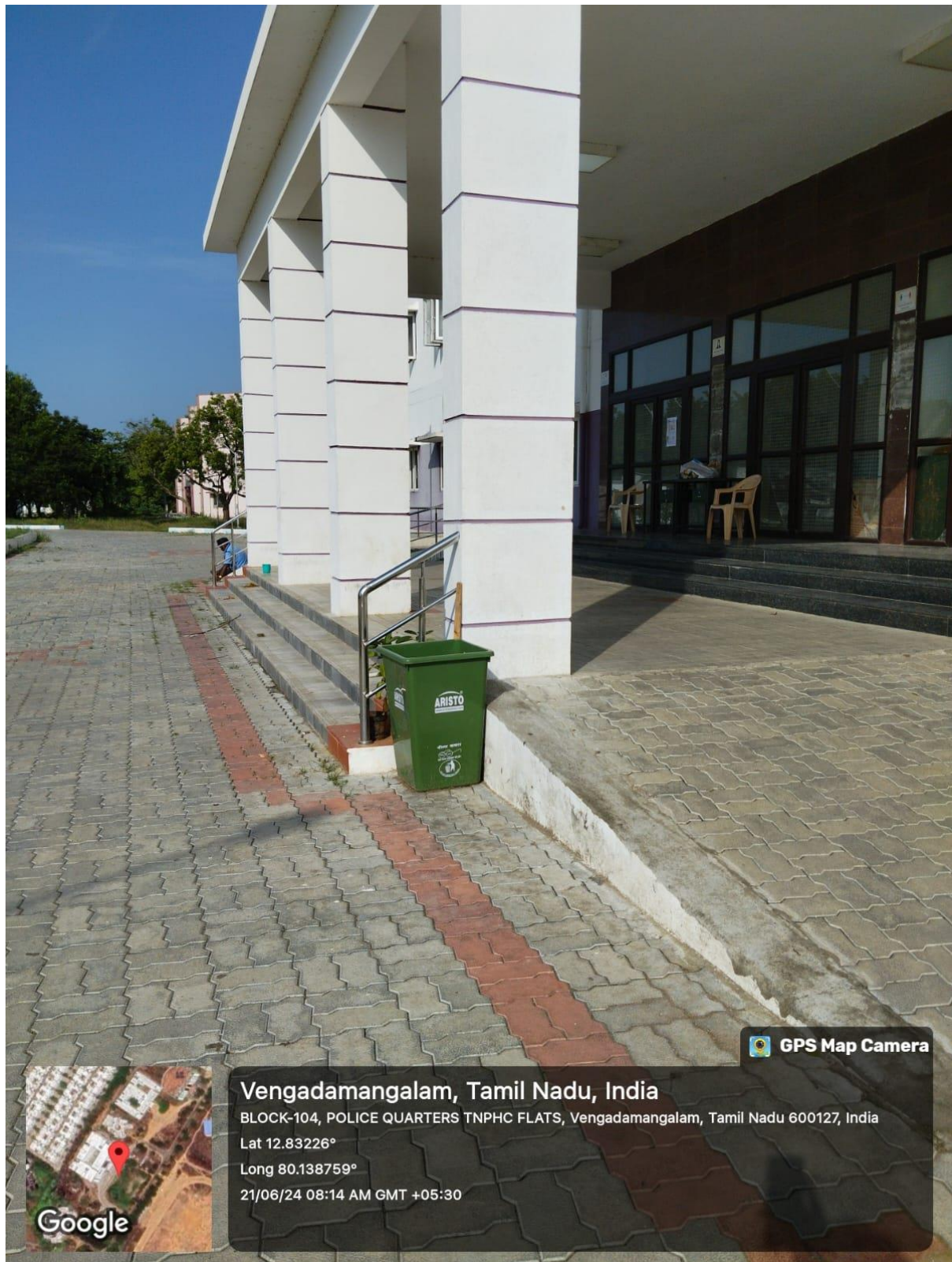




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### PROVISIONS FOR COLLECTION OF WASTE WATER AND SEWAGE





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### BIOGAS PLANT AT THE UNIVERSITY CAMPUS





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### GARBAGE COLLECTIONS BY LOCAL BODY ADMINISTRATION





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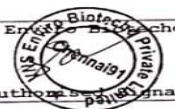


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### BILL FOR BIOGAS PLANT

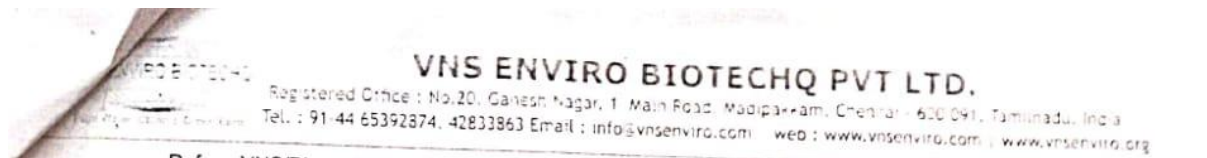
INVOICE															
VNS ENVIRO BIOTECHQ PVT LTD.															
VNS ENVIRO BIOTECHQ Registration Office: No. 20, Ganesh Nagar, 1, Main Road, Madhavaram, Chennai - 600 091, Tamil Nadu, India Tel: +91 44 65192874, 428 11861 Email: info@vnsenviro.com, web: www.vnsenviro.com, www.vnsenviro.org															
GSTIN No: 33AADCV1606K1Z1								Transportation Mode: Road							
Tax is payable on Reverse Charge: (Yes/No)								Vehicle No.							
Invoice No: VNS119/20-21				Date: 22.09.2020				Date & Time of Supply:							
Vendor PONO:				Date:				Place of Supply:							
Details of Receiver								Details Of Consignee (Shipped To)							
The Registrar Tamilnadu Physical Education & Sports University Melakottaiyur, Chennai – 600 127															
State: TAMIL NADU				State Code: 33				State: TAMIL NADU				State Code: 33			
GSTIN No.: 33AAAGT0207K1ZK															
S. NO	Description of goods	HSN code	Qty	UOM	Rate	Total	Dis count	Taxable value	CGST Rate	CGST Amt	SGST Rate	SGST Amt	IGST Rate	IGST Amt	
1.	SUPPLY OF BIOGAS PLANT 20KG PER DAY (Food Waste)	841989	1	NO	36190	36190		36190	2.5%	905.00	2.5%	905.00			
Total								36190		905.00		905.00			
Invoice Value in words -								TOTAL							38000.00
Rupees THIRTY EIGHT THOUSAND ONLY								Freight Charge							
								Round Off							
								Invoice Total							38000.00
Amount of Tax Subject to Reverse Charge								Electronic Ref.No.							
Certified that the particulars given above are true and correct															
Declaration															
This invoice issued in adjustment to Original															
Invoice No															
Date:															
Terms & condition								For VNS Enviro Biotechq Pvt Ltd							
								 Authorized Signatory							



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Ref : VNS/Biogas/047B/20  
Date : 13 March, 2020

To : The Registrar  
Tamilnadu Physical Education & Sports University  
Melakottaiyur, Chennai – 600 127  
Email: regtnpesu@gmail.com

Dear Sir,

**Sub: Submission of Quotation for 20 Kgs per day Biogas system for Thermal Application.**

We refer to the telecon on the above subject and as per the discussions we are pleased to submit our quotation as under for setting up Biogas Plant out of Food Waste of 20 Kg / Day:

(a) AREA REQUIRED FOR SETTING UP THE BIOGAS PLANT [2.0M<sup>3</sup>]

6.0 Ft (Length) x 5.0 Ft (Breadth) x 5.0 Ft Height

(b) DETAILED LIST OF EQUIPMENTS PER PLANT [2.0M<sup>3</sup> / DAY]

S.No	Name of the Equipment	Technical Specification	Quantity	Scope of Supply	
				VNS	Client
1	2.0 M <sup>3</sup> /Day Biogas Plant - FRP Digester & Biogas holder	1.6M <sup>3</sup> Digester thickness 4.0 mm 1.21M <sup>3</sup> Gas Holding thickness 4.0 mm	1	✓	
2	Biogas Burner	Single Stove	1	✓	
3	Gas Pipeline	Nylon threaded gas hose pipeline & Ball valve connection	Up to 5 Meters Max.	✓	
4	Installation and commissioning	As required	Lot	✓	
5	Water line and cow dung feeding to biogas plant	Cow Dung + Water Content (1:1 Ratio)	Lot		✓
6	Civil Platform / Earth Excavation	As required	Lot		✓
7	Initial cow dung feeding to biogas plant for First gas generation	600 Kg to 750 Kg	Lot		✓

VNS OFFERS VIRTUALLY NATURAL SOLUTIONS  
For EFFLUENT, SOLID WASTE, BIOGAS PLANT & WATER TREATMENT



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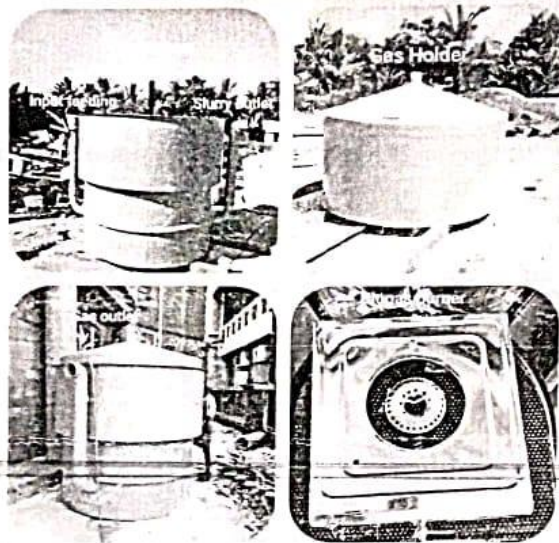
VNS ENVIRO BIOTECH

VNS ENVIRO BIOTECH PVT LTD.

Registered Office: No.20, Eaneshi Nagar, T. Main Road, Madhavaram, Chennai - 600 091, Tamilnadu, India

Tel : 91-44 65392374 - 42833863 Email : info@vnsenviro.com web : www.vnsenviro.com | www.vnsenviro.org

(c) MODEL PHOTO OF THE PROPOSED BIOGAS PLANT



(d) TECHNICAL SPECIFICATION FOR 2.0M<sup>3</sup> / DAY OF BIOGAS PLANT

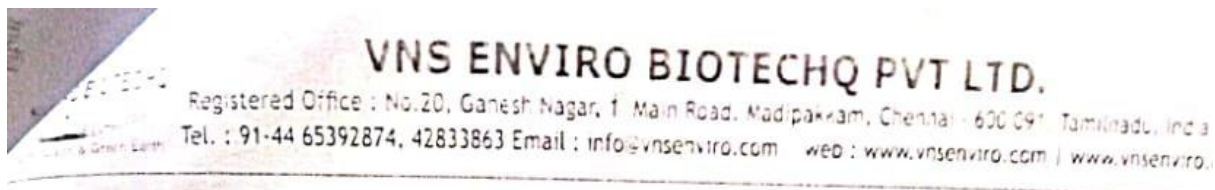
BiogasPlantModel	Specifications
Biogas Plant Type	FRP – Biogas plant- Water seal model
Feedstock	20KG/Day Food Waste
<b>Bio-DigesterOutput</b>	
Biogas production(M <sup>3</sup> /day)	~2
Average Gas Calorific Value (Kcal/NM <sup>3</sup> )	~4,700
Organic Manure Generated (Lit/Day)	~25 to 35
<b>BiogasEquivalenttoLPG</b>	
2.0M <sup>3</sup> Biogas equivalent to LPG (kg/day)	~ 0.7 to 0.9
2.0M <sup>3</sup> Biogas equivalent to LPG (kg/Month)	~21 to 27



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### (e) PRICING DETAILS PER PLANT [2.0M<sup>3</sup>/DAY]

S.No	Particulars	Cost (Rs.) per Plant
1	✓ 2.0M <sup>3</sup> /Day Biogas Plant –FRP Water seal model	40,000.00
2	✓ Biogas Burner – Single Stove [1 No.]	
3	✓ Nylon threaded gas hose pipeline connection & Ball valve connection (Up to 5 meters maximum)	
4	✓ Installation and commissioning	
Total Amount		40,000.00

### (f) RETURN ON INVESTMENT (R O I) :

- ✓ 2.0M<sup>3</sup> X 30 days = 60M<sup>3</sup>/Month
- ✓ 60M<sup>3</sup> = 27KG of LPG
- ✓ Domestic Cylinder Weight 14.5Kg,
- ✓ So, 27Kg/14.5Kg= 01.86 Cylinder Saved per Month
- ✓ Domestic Cylinder cost(Rs) = 1000
- ✓ 1.86 X Rs.1000 = Rs.1860 savings per month
- ✓ Total Savings per year [Rs.1860/- X 12] = Rs.22,320

### (g) COMMERCIAL TERMS:

**PRICE:** Inclusive of installation and commissioning charges, *freight charges shall be extra at actual*; GST will be charged extra as applicable at the time of supply. Current rate of GST shall be 5%.

**SCOPE:** All the equipment will be erected by our Engineer; and shall train your team for a period of 2-3 days to familiarize operation. As a buyer, you will have to arrange –

- Foundations / Excavation of land required for positioning of Biogas Plant at site
- Water Line to Biogas Plant for feeding; and
- Initial cow dung feeding to biogas plant for First gas generation

**Payment Terms:** 90% to be paid as advance along with your firm order and balance 10% to be paid on completion of erection and handing over of plant.

**Delivery:** Within 4-6 weeks from the date of receipt of firm order along with advance.

**Validity:** Our offer is valid for 30 days from the date of this offer.



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### VNS ENVIRO BIOTECHQ PVT LTD.

VNS ENVIRO BIOTECHQ PVT. LTD.  
Registered Office: No. 20, Gopesh Nagar, 1st Main Road, Madhavakkam, Chennai - 600 093, Tamil Nadu, India.  
Tel: 91-44-65792674-42813863 Email: info@vnsenviro.com Web: www.vnsenviro.com | www.vnsenviro.org

**Guarantee:** The equipment being supplied are guaranteed against manufacturing defects and faulty workmanship for a period of 8 months from the date of erection and handing over of plant or 12 months from the date of supply of items at site, whichever occurs earlier. Our liability will be restricted to repairs and replacement of defective parts only.

We hope, our offer meets with your requirement; and in case you require any further clarification / confirmation, we shall provide the same on hearing from you.

For VNS ENVIRO BIOTECHQ PVT. LTD,

S.Nagarajan,  
Chief Executive Officer

Mobile #: 9940189151

Registrar  
Tamilnadu Physical Education  
and  
Sports University  
Chennai - 600 127.