



TAMIL NADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY

Melakottaiyur, Chennai-127

CRITERION 7 – INSTITUTIONAL VALUES AND SOCIAL RESPONSIBILITIES

KEY INDICATOR: 7.1

7.1.2: The Institution has facilities for alternate sources of energy and energy conservation measures:

Certified that the following photos of facilities and documents showing the measures taken by the Institution for the alternate sources of energy and energy conservation measures:

Registrar

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



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1. Introduction

The University is taking lot of efforts for energy conservation. As a measures of energy conservation, 1) automatic power off is used to save energy in all the water tanks, 2) Separate Distribution Box (DB BOX) installed in all the buildings to save energy, 3) All the buildings are enabled with separate provisions for Lights and Fans, Power devices (Plug points of different capacities) and Air Conditioning Points, 4) Control switches have been installed in outside of all rooms in the hostels to save energy even if the inmates not turned off the lights and fans in his/her absence and 5) Distribution of Electricity to hostel is in off mode (save and Safe mode) during the students working hour. Besides these efforts, the following efforts have also been made:

1. Solar Energy:

The University has given purchase order for installing a solar panel for generating 10KV power for the use of lighting purpose in the University Campus as a part of energy conservation initiatives. The total amount to be invested for this solar power installation is Rs 7,14,000/-. It will be implemented at the earliest in the University.

2. Biogas Plant:

The University has a 2.0 M³/Day Biogas Pant out of food waste of 20 kg /day installed in the hostel mess of the University.

3. Sensor Based Energy Conservation:

The University has taken initiatives to conserve energy through sensor base technology for some of the facilities especially at the Administration Block of the University. Street lights in the University campus are enabled with timer control (6 pm to 6.00 am). The Wind Tunnel lab will be enabled with sensor lights (auto off when the shutter is closed).



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4. Use of LED Bulbs:

The University use at least 50 percentage of LED bulbs for its total lighting requirement and further decided to purchase only LED blubs for its future requirements. 30 W LED street lights, 50 W LED Flood lights/ 100W LED Flood lights are used in the University Campus. All the staff rooms, offices, Conference halls and Laboratories are fitted with LED lights in order to save energy.



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Biogas Plant at the University Campus





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Use of LED Bulbs in the University





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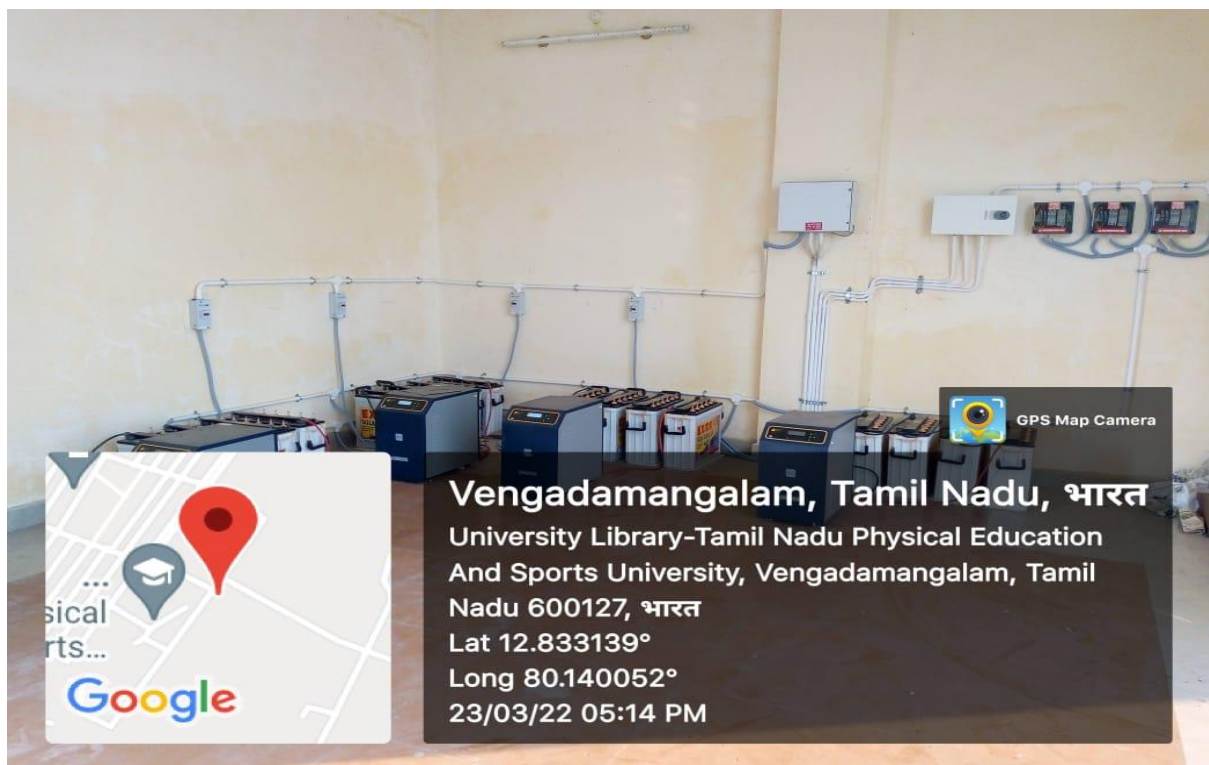


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Solar Energy Panels at the Rooftop of University Library Building



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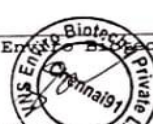
1.Bill for Biogas Plant

INVOICE

VNS ENVIRO BIOTECHQ

VNS ENVIRO BIOTECHQ PVT LTD.

Registered Office: No 20, Ganesh Nagar, 1st Main Road, Madhavaram, Chennai - 600 091, Tamilnadu, India
 Tel : 91 44 65192874, 42811861 Email : info@vnsenviro.com web : www.vnsenviro.com | www.vnsenviro.org

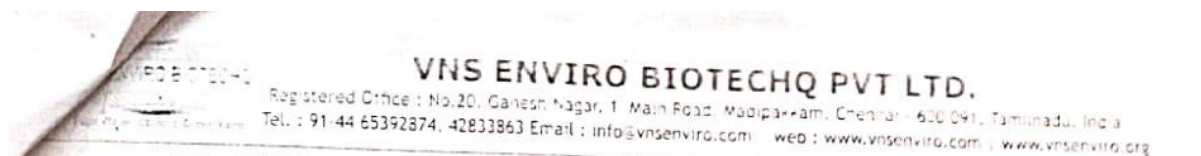
GSTIN No: 33AADCV1606K1Z1								Transportation Mode: Road							
Tax is payable on Reverse Charge: (Yes/No)								Vehicle No.							
Invoice No: VNS119/20-21						Date: 22.09.2020		Date & Time of Supply:							
Vendor PONO:						Date:		Place of Supply:							
Details of Receiver								Details Of Consignee (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	Discount	Taxable value	CGST		SGST		IGST		
									Rate	Amt	Rate	Amt	Rate	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															
Certified that the particulars given above are true and correct								Electronic Ref.No.							
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 [2.0M³]

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

(b) DETAILED LIST OF EQUIPMENTS PER PLANT [2.0M³ / DAY]

S.No	Name of the Equipment	Technical Specification	Quantity	Scope of Supply	
				VNS	Client
1	2.0 M ³ /Day Biogas Plant - FRP Digester & Biogas holder	1.6M ³ Digester thickness 4.0 mm 1.21M ³ 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 Solid Biogas
For EFFLUENT, SOLID WASTE, BIOGAS PLANT & WATER TREATMENT



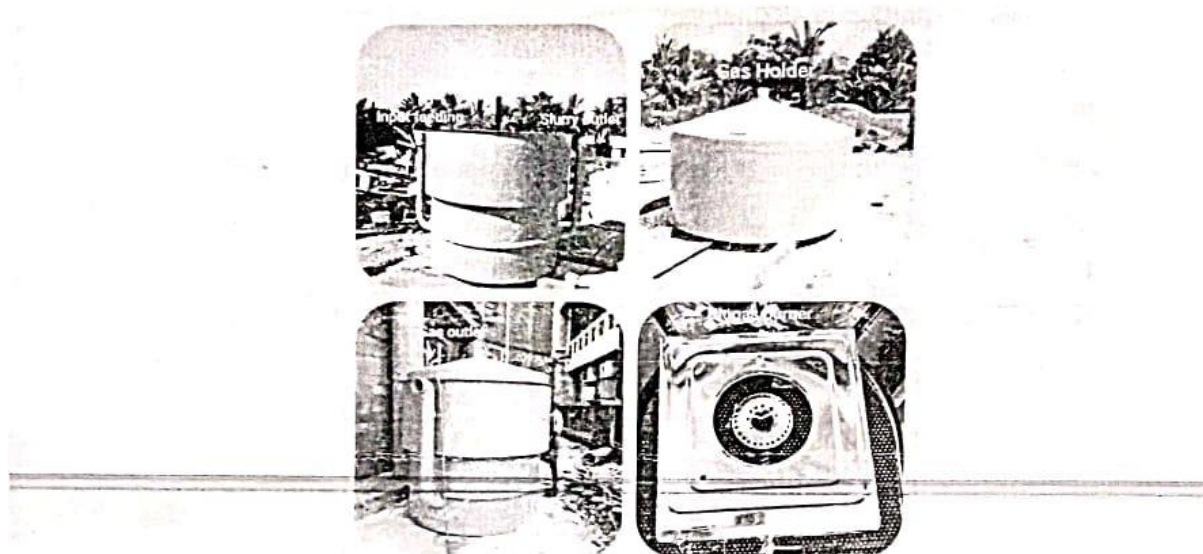
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(c) MODEL PHOTO OF THE PROPOSED BIOGAS PLANT



(d) TECHNICAL SPECIFICATION FOR 2.0M³ / DAY OF BIOGAS PLANT

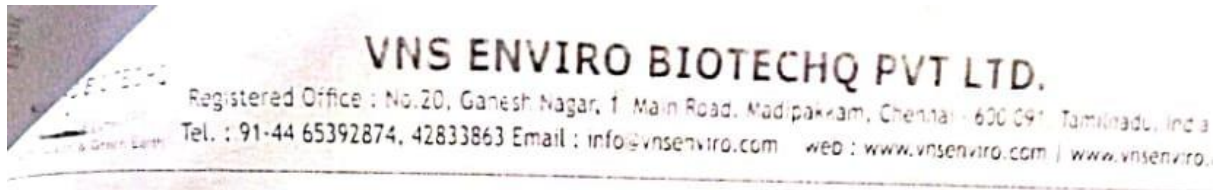
BiogasPlantModel	Specifications
Biogas Plant Type	FRP – Biogas plant- Water seal model
Feedstock	20KG/Day Food Waste
Bio-DigesterOutput	
Biogas production(M ³ /day)	~2
Average Gas Calorific Value (Kcal/NM ³)	~4,700
Organic Manure Generated (Lit/Day)	~25 to 35
BiogasEquivalenttoLPG	
2.0M ³ Biogas equivalent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



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(e) PRICING DETAILS PER PLANT [2.0M³/DAY]

S.No	Particulars	Cost (Rs.) per Plant
1	✓ 2.0M ³ /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) :

- ✓ 2.0M³ X 30 days = 60M³/Month
- ✓ 60M³ = 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, Ganesh Nagar, 1st Main Road, Madipakkam, Chennai - 600 091, Tamilnadu, India
Tel: 91-44 65392874, 42833863 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 # 9940189451

EXPERTS IN SOLID WASTE BIOGASIFICATION & WATER TREATMENT

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3. Bill for LED bulbs

20740003112A 33 33AAAGT0207K1ZK CHENNAI-127, PH-9445813214 Tamil Nadu, Code : 33 (other than consignee) REGISTRAR CHENNAI-127, PH-9445813214 UIN : 33AAAGT0207K1ZK Name : Tamil Nadu, Code : 33 of Supply : Tamil Nadu		VE/1594/20-21 Buyers Order No _____ Dated _____ Despatch Document No _____ Delivery Note Date _____ Despatched through _____ Destination _____ Terms of Delivery _____	
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Description of Goods	HSN/SAC	GST Rate	Quantity	Rate	per	Disc %	Amount
25SQMM X 3.5 ALLUINIUM ARMoured UG CABLE 1100V	8544	18 %	60 MTR	124.58	MTR		7,474.80
30W LED STREET LIGHT	9405	12 %	25 NOS	899.94	NOS		22,498.50
50W FLOOD LIGHT LED	9405	12 %	1 NOS	1,150.00	NOS		1,150.00
100 WATT LED FLOOD LITE	9405	12 %	2 NOS	2,201.00	NOS		4,402.00
16.0SQMMX2C IND INS PVC CABLE A/R 1.1 KV	8544	18 %	35 MTR	76.30	MTR		2,670.50
							38,195.80
CGST @ 9 % OUTPUT							913.08
SGST @ 9 % OUTPUT							913.08
CGST @ 6 % OUTPUT							1,683.03
SGST @ 6 % OUTPUT							1,683.03
Less: ROUND OFF							(-)0.02
Total							₹ 43,388.00

Amount Chargeable (in words) INR Forty Three Thousand Three Hundred Eighty Eight Only							
HSN/SAC	Taxable Value	Rate	Central Tax Amount	State Tax Rate	Amount	Total Tax Amount	
8544	10,145.30	9%	913.08	9%	913.08	1,826.16	
9405	28,050.50	6%	1,683.03	6%	1,683.03	3,366.06	
Total	38,195.80		2,596.11		2,596.11	5,192.22	

Tax Amount (in words) : INR Five Thousand One Hundred Ninety Two and Twenty Two paise Only

Company's PAN : ADCPD8593L Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct	Company's Bank Details Bank Name : KOTAK MAHINDRA BANK A/c No. : 400011010802 Branch & IFS Code : G.N.STREET & KKBK0005483 for VASANTH ELECTRICALS 
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This is a Computer Generated Invoice

Certified that the above electrical items were purchased by me from the advance received and entered in the Register section, Purchase Expenditure 1.1.12

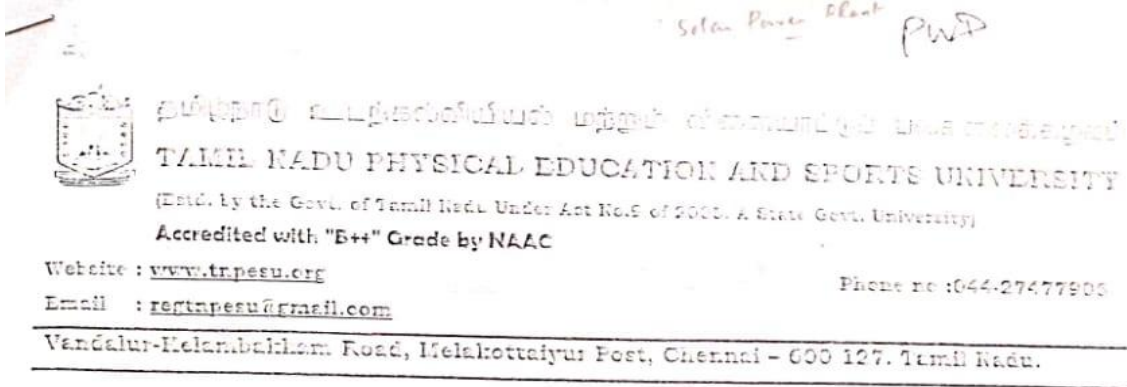


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4. Bill for Solar Power Plant



Dr.V.Gopinath

Registrar

O.P.No /2020/R2/Reg/Unutilized amount /PWD

dated 28.06.2020

To

The Executive Engineer

Technical Education Division

Public Works Department

Guindy, Chennai. 600 022.

Sir,

Sub: Tamil Nadu Physical Education and Sports University-
Construction works in this University- Funds Deposited- unutilized amount-
remittance requested- regarding.

Ref: Your letter no. 379/AB/A2TNPESU* dated 20.07.2020.

With reference to above, I am by direction to state that the
unutilized amount of Rs. 40,80,206(Rupees Forty lakhs eighty thousand and
two hundred six only) available with you may be utilized for undertaking the
following pending civil works in the buildings which are furnished below.

2. I am by direction to furnish the details of work proposed to be
taken up on each item and request you to prepare detailed estimates for
carrying out these works and send the same to this University for approval
immediately.

V. G





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Sl. No	Description of the work sanctioned by Government/University	Amount unutilized Rs.	Description of the proposed works to be taken up now
1	Construction of administrative block, ladies hostel, gents hostel, staff quarters, peripheral wall for VC and Regr quarters and development of play fields	1,67,443	Stone benches in the to be women hostel (old gents Hostel)
2	Construction of Sports Science Centre	3,63,454	1, Provision of sink and pipe line in the Yoga Centre 2 Two Mobile Security rooms
3	Construction of Camping Centre	1,73,405	Construction of gallery and stage for the camp program
4	Standardization of play fields, construction of multi purpose indoor stadium, library hall, conference hall, research laboratories, meditation hall, canteen and providing link road	20,88,791	Installation of Solar panel /plant in top of the library building
5	Construction of additional class rooms, 1 Second floor in Gents Hostel and second floor in Girls Hostel	11,40,981	Provision of rain water harvesting or Sewage Treatment plant in the Academic, Gents hostel and ladies hostel, 2. White wash to the mess hall in the Gents and Girls Hostel.
Total		38,34,025	

I am therefore request you to furnish the detailed estimates for the above left over works indicated in Sl.No. 1 to 5 of the statement above to this University for approval.

I am also to state that the unutilized amount available with you in respect of the following items of work may kindly be remitted to the

V. P. [Signature]



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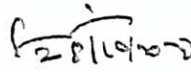
University account immediately and intimate the same. The details of the University Account No, the Bank name etc are given below

Sl. No	Description of the work sanctioned by Government/University	Amount unutilized Rs.
1	Construction of laboratory for Sports Technology	21,820
2	Construction of GYM	28,504
3	Construction of front arch	90,752
4	Improvements in the Mess hall and hostel wash area and health centre partition	3,106
	Total	1,44,152.00

- (i) Name of the Bank : Indian Bank, Nallambakkam Branch
ii) Bank Account No : 6484830492
iii) MICR No : 600019111
iv. IFSC Code No : IDIB 000 No 56.

IDIB 0000056

Yours faithfully

V. 
Registrar

V. 



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