



VIVEKANANDA COLLEGE

(GOVT. SPONSORED) (NAAC ACCREDITED GRADE 'A')

Ref. No.....

Date.....



Vermicomposting Unit of Vivekananda College, Thakurpukur

Introduction

The Vermicomposting Unit at Vivekananda College, Thakurpukur, is a significant initiative that aligns with the college's commitment to sustainable practices and environmental awareness. The college has established a vermicomposting unit in 2022, which also functions as an incubation centre for the creation and transfer of knowledge and technology. The unit was established in 2022.

Establishment of the Vermicomposting Unit

The establishment of the vermicomposting unit involved several stages, starting with the construction of the composting pits. The following steps highlight the key phases:

1. Construction of the Composting Pits:

- Initial groundwork involved the preparation of the site and the construction of the composting pits. These pits were built with proper ventilation and drainage systems to facilitate the composting process effectively.

2. Infrastructure and Setup:

- A dedicated structure was erected to house the vermicomposting unit. This building ensures the protection of the composting pits from adverse weather conditions and provides a controlled environment for the composting process.

Pit Method:

- Two large pits (9x7 feet) have been dug in one corner of the college premises besides the college pond.
- The walls of these pits are cemented.
- A layer of cow dung was applied, and *Eisenia fetida* earthworms were introduced.
- The pits are regularly filled with garden waste (dried leaves) and vegetable waste from the college canteen.
- Every 1-2 months, the vermicompost is harvested using sieves, and the pits are refilled with garden waste and water.



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Functioning of the Vermicomposting Unit

The functioning of the vermicomposting unit is designed to be both efficient and educational:

1. Composting Process:

- Organic waste is collected from various sources within the college campus and placed into the composting pits.
- The pits are lined with plastic sheets to prevent leachate from contaminating the soil and to retain moisture levels necessary for the composting process.

2. Introduction of Earthworms:

- Specific species of earthworms, known for their efficiency in decomposing organic matter, are introduced into the pits. These worms accelerate the breakdown of organic waste, converting it into nutrient-rich vermicompost.

3. Harvesting the Compost:

- The final product, vermicompost, is harvested periodically. This compost is a valuable resource for enriching the soil in the college's gardens and agricultural plots.

Outcomes

The vermicomposting unit, as an incubation centre, has yielded several positive outcomes:

- **Enhanced Learning:** Students gain practical experience in sustainable agricultural practices.
- **Skill Development:** Students develop skills in vermiculture, waste management, and marketing.
- **Research Culture:** Encouragement of a research-oriented approach among students.
- **Environmental Impact:** Contribution to maintaining an eco-friendly campus.
- **Knowledge Transfer:** Effective creation and transfer of knowledge and technology in bio-fertilizer production.
- **Curriculum:** The vermicomposting unit has provided hands-on experiential learning opportunities for students as part of the Zoology curriculum under CBCS and CCF and Resource Ecology Elective of PG, enhancing their understanding of sustainable agricultural practices.

Benefits and Outcomes

The vermicomposting unit provides numerous benefits to the college and the surrounding community:

1. Environmental Benefits:



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- Reduction of organic waste through composting contributes to lower waste disposal costs and minimizes landfill usage.
 - The production of vermicompost enhances soil fertility and promotes organic farming practices on the campus.
- 2. Educational and Practical Learning:**
- The vermicomposting unit serves as a live laboratory for students, providing hands-on experience in sustainable waste management and organic farming.
 - Students learn about the ecological benefits of composting and the practical applications of vermicompost in agriculture.
- 3. Community Engagement:**
- The initiative fosters a sense of environmental responsibility among students and staff, encouraging the adoption of sustainable practices in their daily lives.
 - The unit also serves as a demonstration project for the local community, promoting awareness about sustainable waste management practices.

Future Plans

The college aims to expand the vermicomposting unit by increasing the number of composting pits and introducing more organic waste sources. Plans also include organizing workshops and seminars to educate the broader community about the benefits and techniques of vermicomposting.

Conclusion

The Vermicomposting Unit at Vivekananda College, Thakurpukur, stands as a testament to the college's dedication to sustainability and environmental education. By converting organic waste into valuable compost, the unit not only enhances the college's green initiatives but also provides a practical learning platform for students, fostering a culture of environmental stewardship.



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Construction of vermicomposting unit



Pit inside the unit



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Front side of the unit



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Introduction of *Eisenia fetida* inside the pit



Water being sprinkled inside the pit



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Covering the pit to retain moisture



The pit containing the compost



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The first yield from the unit



The compost stored within sacks

Dr. Gunjan Dhar
Assistant Professor in Zoology
Vivekananda College, Thakurpukur

Incharge of Vermicomposting Unit



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Notice

Date: 8/12/2020

It is hereby notified that Dr. Gunjan Dhar has been appointed as the In-charge of the Vermicomposting Unit of the college with immediate effect. Dr. Dhar will be responsible for overseeing the operations, maintenance, and development of the vermicomposting activities within the college premises.

Tapan Kumar Poddar

Principal
Vivekananda College
Thakurpukur Kol-63

Dr. Tapan Kumar Poddar
Principal
[Vivekananda College Thakurpukur]

269, DIAMOND HARBOUR ROAD, THAKURPUKUR, KOLKATA-700 063
Website : www.vckolkata63.org ● email : vivekanandacollege63@gmail.com



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(GOVT. SPONSORED) (NAAC ACCREDITED GRADE 'A')

Ref. No.....

Date.....

GST INVOICE

Details of Saller (Billed from)

JOY MA A TARA DEVELOPERS

73/7, AROBINDRA, NAGAR ROAD 2 PO JOKA PS HARIDDEVPUR, JOKA, (W.B.) KOLKATA - 700104
M-07980031654, 09051288643, E-mail:- deba1985roy@gmail.com

GSTIN:- 19BOPPR5768N1ZM		Invoice No.:- JMTD/06/23-24				
Order No.:-		Date:- 23.05.2023				
Order Date:-		Challan No.:-				
Details of Customer /Receiver (Billed to)		Consignment Note No.				
Name:- VIVEKANANDA COLLEGE		Despatch Through-				
Address:- 269, DIAMOND HARBOUR ROAD, KOLKATA - 700063		Date:- 23.05.2023				
State:- W.B		State:- WB				
GSTIN GSTIN/UID : 19CALV00554B1DD		GSTIN/UID				
PAN CALVO0554B1DD		Place of S KOLKATA				
Sl.No	Product Description	HSN/ SAC Code	Qty.	Unit	Rate (Rs.)	Taxable Value (Rs.)
1	Vermi Composting Unit					
1	Tie Beam	995415	75	RFT	350.00	26,250.00
2	5" Wall Gaatne	995415	675	Sq.ft	75.00	50,625.00
Total						76,875.00
Total Invoice Value (In Words): Rupees Ninety Thousand Seven Hundred Thirteen Only.				Add: SGST @%	9	6,918.75
Remarks:				Add: CGST @%	9	6,918.75
				Add: IGST @%	0	0.00
				Total After Tax		90,712.50
				Round Off		0.50
				Grand Total		90,713.00
Receiver's Signature				 Signature Name of the Signatory		



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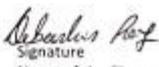


VIVEKANANDA COLLEGE

(GOVT. SPONSORED) (NAAC ACCREDITED GRADE 'A')

Ref. No.....

Date.....

GST INVOICE						
Supplier (Billed from)						
JOY MAA TARA DEVELOPERS						
73/7, ARBOBINDRA, NAGAR ROAD 2 PO JOKA P'S HARIDVAPUR, JOKA, (W.B.) KOLKATA - 700104 M: 07980031654, 09051288643, E-mail: - deba1985roy@gmail.com						
GSTIN:- 19BOPPR5768N1ZM				Invoice No.:- JMTD/07/23-24		
Order No.:-				Date:- 23.05.2023		
Order Date:-				Challan No.:-		
Details of Customer /Receiver (Billed to)				Consignment Note No.		
Name:- VIVEKANANDA COLLEGE				Despatch Through:-		
Address:- 269, DIAMOND HARBOUR ROAD, KOLKATA - 700063				Date:- 23.05.2023		
State:- W.B				State:- WB		
GSTIN /UIN : 19CALV00554B1DD				GSTIN/UID		
PAN: CALV00554B1DD				Place of : KOLKATA		
Sl. No	Product Description	HSN/ SAC Code	Qty.	Unit	Rate (Rs.)	Taxable Value (Rs.)
Vermi Composting Unit						
1	10" Wall Gaatne	995415	87	Sq.ft	120.00	10,440.00
2	RCC Roof	995415	56	Sq.ft	400.00	22,400.00
3	Painting Work	995415	1450	Sq.ft	22.00	31,900.00
4	Iron Window (5 Pcs)	995415	22	Sq.ft	650.00	14,300.00
Total						79,040.00
Total Invoice Value (In Words):					Add: SGST @%	9 7,113.60
Rupees Ninety Three Thousand Two Hundred Sixty Eight Only.					Add: CGST @%	9 7,113.60
					Add: IGST @%	0 0.00
Remarks					Total After Tax	93,267.20
					Round Off	0.80
Receiver's Signature					Grand Total	93,268.00
					 Signature Name of the Signatory	



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GST INVOICE

JOY MA TARA DEVELOPERS
 73/7, AROBINDRA, NAGAR ROAD 2 PO JOKA PS HARIDV PUR, JOKA, (W. B.) KOLKATA - 700104
 M-07980031654, 09051288643, E-mail - deba1985roy@gmail.com

GSTIN:- 19BOPPR5768N1ZM		Invoice No.:- JMTD/08/23-24				
Order No.:-		Date:- 23.05.2023				
Order Date:-		Challan No.-				
Details of Customer /Receiver (Billed to)						
Name:- VIVEKANANDA COLLEGE		Consignment Note No.				
Address:- 269, DIAMOND HARBOUR ROAD, KOLKATA - 700063		Despatch Through-				
State:- W B		Date:- 23.05.2023				
GSTIN GSTIN/UIN : 19CALV0055481DD		State:- WB				
PAN CALVO0554B1DD		GSTIN/UID				
Place of : KOLKATA						
Sl.No	Product Description	HSN/ SAC Code	Qty.	Unit	Rate (Rs.)	Taxable Value (Rs.)
Vermi Composting Unit						
1	Plaster	995415	1350	Sq.ft	40.00	54,000.00
2	RCC Roof	995415	30	Sq.ft	650.00	19,500.00
Total						73,500.00
Total Invoice Value (In Words): Rupees Eighty Six Thousand Seven Hundred Thirty Only.				Add: SGST @% 9 6,615.00		
				Add: CGST @% 9 6,615.00		
				Add: IGST @% 0 0.00		
Remarks:				Total After Tax 86,730.00		
				Round Off 0.00		
				Grand Total 86,730.00		
Receiver's Signature				 Signature Name of the Signatory		



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Ref. No.....

Date.....

GST INVOICE

JOY MA A TARA DEVELOPERS

21/7, ANDIRIBHRA, HAZAR ROAD 2 INDIA P. HAZAR PUR, HOA, (W B) KOLKATA - 700104
M D 9200011054, PIN 1200641, E-mail - delta1987reg@gmail.com

Invoice No.: IMTD/09/23 24
Date: 23.05.2023
Challan No.:
Consignment Note No.:
Despatch Through:
Date: 23.05.2023
State: WB
GSTIN/URN: CALV00554B1DD
Place of Origin: KOLKATA

Order No.: 19B0PFR5768NEZM1
Order Date:
Details of Customer /Receiver (Billed to):
Name: VIVEKANANDA COLLEGE
Address: 269, DIAMOND HARBOUR ROAD, KOLKATA - 700063
State: WB
GSTIN: CALV00554B1DD
PIN: CALV00554B1DD

S.No	Product Description	HSN/ SAC Code	Qty	Unit	Rate (Rs.)	Taxable Value (Rs.)
1	Vermi Composting Unit B.C.C. Ret. Cement & Soil Cutting Labour	995415	229	Sq.ft.	280.00	64,120.00
Total						64,120.00

Total Invoice Value (In Words):
Rupees Seventy Five Thousand Six Hundred Sixty Two Only.

Remarks:

Receiver's Signature: _____
Signature: *Debmis Roy*
Name of the Signatory

Add: 5.5% 89% 0
 Add: 1.65% 89% 0
 Add: 1.65% 89% 0
 Total After Tax 75,561.45
 Round Off 9.40
 Grand Total 75,570.85

Bills and vouchers of construction of vermicomposting unit

No. 110 Date: 15/6/24

VIVEKANANDA COLLEGE
THAKURPUKUR, KOLKATA-700 063

A/c: *IDMANTA*

Received from Sri/Sm. *Debmis Roy*

the sum of Rs. *50/-*
(Rupees *Fifty Only*)
on account of *2.5 kg Vermicompost*

G 15.6.24
Cashier

Receipt of vermicompost



Rchanda
Teacher-in-Charge
VIVEKANANDA COLLEGE
Thakurpukur, Kol-63