



शिवजी कॉलेज
(दिल्ली विश्वविद्यालय)
Shivaji College
(University of Delhi)
NAAC ACCREDITED "A" GRADE COLLEGE



SUPPORTING DOCUMENTS FOR 7.2

Best Practice 2

Practicing Sustainability through Waste Management in College Campus



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1. Vermicomposting Unit

Functional vermicomposting unit in the college (near WUS Health Centre) that uses earthworms (*Eiseniafoetida*) that converts horticultural waste into superior quality compost (a soil amendment) used in gardens and nursery in the college.





2. Bio-composting unit

State of the art Bio-composting unit of the College (located near RO Plant) with an installed capacity of 50 kg/day crushes and homogenises segregated horticultural waste that is then converted into compost (a soil amendment). Compost produced is then used in college lawns and herbal garden.





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Letter of handover of 340 kg high quality compost to the college produced using Bio-Composting unit to be used in lawn of the college.

To P/1622/R4
21/03/24 21-03-2024

The Principal
Shivaji College
(University of Delhi)

Sub: Hand over of 340 kg compost produced from
Bio-composting unit - reg

Respected Sir,

I am happy to inform you that the Bio-composting unit in the college has produced 340 kg of high quality compost. The compost is packed in 17 bags with a capacity of 20 kg each.

The aforementioned compost has been handed over to the agency responsible for managing garden work in the college (M/s Shanti Enterprises).

Submitted for kind information, please.

Thanking you.

Yogender
Assistant Professor
Dr. Yogender Singh
Environmental Studies
Shivaji College
University of Delhi
Mob: 9728749754

Yours sincerely
Ashwani Sharma
(ASHWANI SHARMA)
Incharge, Bio-Composting Unit
Shivaji College (Univ. of Delhi)
M: 8222877211



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Photograph of handover of 340 kg high quality compost to the college produced using Bio-Composting unit to be used in lawn of the college.





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340 Kg of high quality compost packed in bags (horticultural supervisor in background).



Delhi, Delhi, India

M44C+FF7 Shivaji College 1, Shivaji Enclave, Tagore Garden Extension,
Delhi, 110027, India

Lat 28.656048°

Long 77.121405°

31/01/24 10:50 AM GMT +05:30





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3. Bio-Bins for management of canteen waste

Composition of the Waste Management Committee to oversee the installation and working of Bio-Bins in the college.

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संदर्भ सं० / Ref. No. SH/Atmcm/3857/23 दिनांक/Dated 17/11/2023

To,
The Team Leader, Project S.O.R.T.
Indian Pollution Control Association (IPCA)
New Delhi 110092

Subject: List of "Waste Management Committee (WMC)" members under the project S.O.R.T.

Dear Sir,

With reference to your 'Consent Letter for participation in project S.O.R.T. and with respect to formulation of WMC for executing and sustaining the project as mentioned in the said letter. I, Prof. Virender Bhardwaj, Principal on behalf of the Shivaji College (University of Delhi), Raja Garden, Ring Road, New Delhi – 110027 hereby submit the below list of members constituting the WMC as required. This committee will be responsible for the sustenance and effective functioning of the project during the project duration irrespective of any change/ new appointments in the society/School/College. In case of any change in the members of the committee going forward to handle the project S.O.R.T. as listed below, I shall revert and bring the requisite update in records.

S.No.	Name	Designation	Contact Number	Email ID
1	Dr. Prabuddh Kr. Mishra	Assistant Professor	9711440385	prabuddh@shivaji.du.ac.in
2	Dr. Ashwani Sharma	Assistant Professor	8222877211	ashwani.envis@gmail.com
3	Dr. Yogender Singh	Assistant Professor	9728749754	yogendersinghdhanda@gmail.com
4	Dr. Abhijeet Mishra	Assistant Professor	9911744910	abhijeetmishra@shivaji.du.ac.in
5	Dr. Gunjan Sirohi	Assistant Professor	9968956818	gunjansirohi@shivaji.du.ac.in
6	Dr. Priyanka Ojha	Assistant Professor	7800945614	priyankaojha6677@gmail.com

Thanks and regards

 Prof. Virender Bhardwaj
 Principal

राजा गार्डन, रिंग रोड, नई दिल्ली-110027/Raja Garden, Ring Road, New Delhi - 110027 • ऑफिस/Off.: 011-25116644
 टेलीफैक्स/Telefax: 011-25155551 • ई-मेल/E-mail: shivajicollege.ac@gmail.com • वेब/Website: www.shivajicollege.ac.in



Functional Bio-Bins for managing canteen/food waste in the college (Installed during November 2023).





4. Paper Recycling Unit

Paper Recycling Unit (PRU) located in Principal Bungalow of the College converts discarded paper waste into recycled paper sheets that are used to convert files and folders to be used during various events of the college.





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Glimpse of students working in the PRU to produce recycled paper sheets from discarded paper waste.





5. 130 KLD STP and 10 KLD ETP for waste-water treatment in the college.

130 KLD STP Plant for treatment of sewage/chemical waste generated in the old and new academic blocks of the college.





10 KLD ETP Plant for treatment of effluent generated from the laboratories in old and new academic blocks of the college.





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6. Installation of menstrual waste collection bins in college washrooms for disposing of sanitary waste.

Permission letter for installing menstrual waste collection bins in college washrooms.

TO,
THE PRINCIPAL
SHIVAJI COLLEGE
RAJA GARDEN
NEW DELHI, 110027

SUB - Permission regarding installing menstrual waste collection bins in college washrooms.

Respected Sir,

This letter is to request approval to set up menstrual waste collecting bins in college as part of our Enactus Shivaji Project, Sana.

About Enactus Shivaji
Enactus focuses on fostering the spirit of entrepreneurship along with social work in its students.

We are currently working on our Project, Sana, which is a comprehensive blend of social entrepreneurship, carefully paving way to the importance and awareness of menstrual hygiene and an effort towards reducing plastic-based menstrual waste. It strives to liberate all menstruators from social stigma and empower them.

We are a group of enthusiasts aiming to curb water and land pollution caused due to plastic menstrual products.

For the same, we have collaborated with an eco-friendly menstrual sanitation company, PadCare Labs that promotes improved hygiene standards.

About PadCare Bin
PadCare bin is a compact, at-source waste segregation solution. Being equipped with modern sensor-based technology, it allows for a completely touch-free experience.

We intend to install these bins in washrooms where menstruators can safely and easily dispose off their pads. This sanitary waste will be collected weekly and sent to PadCare's nearby processing unit. From there, the PadCare automated hygiene management appliance will transform this sanitary waste into sterilised, segregated cellulose and plastic output through its 5D process.

With this, we aim to make modern sanitation options safer and recyclable for all menstruators and promote inclusivity, equality, and hygienic practices, starting at our campus and expanding to other colleges.

We would be obliged if you would consider our request and grant us permission for the same.

Regards,
Enactus Shivaji

Allowed
18/1/2023

Usha Sharma
Faculty Advisor
Enactus Shivaji



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Patent for a smart portable device and system for disposing of sanitary waste.

 INTELLECTUAL PROPERTY INDIA PATENTS DESIGNS TRADE MARKS GEOGRAPHICAL INDICATIONS	 सत्यमेव जयते भारत सरकार GOVERNMENT OF INDIA पेटेंट कार्यालय THE PATENT OFFICE पेटेंट प्रमाणपत्र PATENT CERTIFICATE (Rule 74 Of The Patents Rules)	क्रमांक : 022113835 SL No : 
पेटेंट सं. / Patent No.	:	370731
आवेदन सं. / Application No.	:	201921023476
फाइल करने की तारीख / Date of Filing	:	13/06/2019
पेटेंटी / Patentee	:	PADCARE LABS PRIVATE LIMITED
<p>प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित A SMART PORTABLE DEVICE AND SYSTEM FOR DISPOSAL OF SANITARY WASTE नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख 13th day of June 2019 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।</p> <p>It is hereby certified that a patent has been granted to the patentee for an invention entitled A SMART PORTABLE DEVICE AND SYSTEM FOR DISPOSAL OF SANITARY WASTE as disclosed in the above mentioned application for the term of 20 years from the 13th day of June 2019 in accordance with the provisions of the Patents Act, 1970.</p>		
 अनुदान की तारीख : 30/06/2021 Date of Grant :	 पेटेंट नियंत्रक Controller of Patent	
<p>टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 13th day of June 2021 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देव होगी। Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 13th day of June 2021 and on the same day in every year thereafter.</p>		