

## 7.2

### Best Practice 1

1. **Title of the Practice:** Disposal of biowaste in Life Science departments of the college.
2. **Goal:** To take an initiative in maintaining a clean and healthy environment for all stakeholders of the college and community at large while ensuring the safety of personnel at risk.
3. **The Context:** Life science departments viz. Microbiology, Biotechnology, Zoology and Botany generate waste of different types viz. dry, sharps (broken glassware, used blades, needles etc.) and wet including biological waste some of which may be biohazardous. Such waste cannot be disposed of without proper segregation, else it may pose a hazard to various stakeholders of the college and community at large. Inadvertent exposure to sharp and biohazardous waste can lead to cuts, wounds, infections or spread of disease. The support staff of Microbiology and Biotechnology Departments re at a higher risk of contracting infections since they handle biohazardous material and glassware and clean the laboratories.
4. **The Practice:** In order to ensure health and safety of the support staff, they are vaccinated at the Health Centre, Savitribai Phule Pune University and it is ensured that they use safety gear like a mask, handgloves etc. while handling the waste.

The waste is first segregated as per the as per guidelines of the Pune Municipal Corporation into dry, wet and sharps. The decontamination of wet waste (by autoclaving at 15 PSI for 30 min) is carried out prior to disposal in Microbiology and Biotechnology departments. Before the waste is handed over to the Common Biomedical Waste Treatment Facility Centre (CBWTF), PASSCO Environmental Solutions Pvt. Ltd., it is segregated in different bags as per the following color code:

- Red Bag – for Class VII solid wastes like gloves, injections, saline bottles and all types of plastic wares (to be cut before disposal) including tubings and catheters.
- Yellow Bag – For Class I wastes which include human cells, tissues, organs or part of it.
- For Class II wastes such as animal wastes.
- For Class III wastes like Microbial and Biotechnological wastes.
- For Class V wastes which includes cytotoxic chemicals or expired drugs and blood contaminated wastes.
- For Class VI wastes such as Cotton, bandages which come in contact with blood or body fluids.
- White Transparent Bucket/ Container – for Class IV wastes such as Blades, syringes, scalpels, glass pieces. After decontamination, they are enclosed in a thick cardboard box and then the white barcode sticker is applied.

The weight of the waste is recorded at the time of handing over and an entry is made in the Waste disposal Entry Book, duly signed by the receiver.

5. **Evidence of success:** There is no reported outbreak of disease amongst the students, staff members or community at large due to faulty waste disposal practices.

**6. Problems Encountered and Resources required:** The support staff required to be oriented and trained with respect to handling and segregation of waste, decontamination of wet waste and its proper disposal. For an educational institution, the expense of proper waste disposal becomes a burden. The institution is committed to ensuring the safety of all stakeholders and the protection of the environment.



# पुणे महानगरपालिका

अर्थीय विभाग

जैव वैद्यकीय कचऱ्याची निर्मूलन सेवा

१ वर्षाचा आगाऊ भरणा केल्यास ५% किंवा ३ वर्षाचा आगाऊ भरणा केल्यास ७.५% सबसिड मिळेल.

<b>OCCUPIER</b> : (PL000208) MODERN ARTS,SCIENCE & COMMERCE COLLEGE GANESHKHIND ROAD	<b>BARCODE REF</b> : 002985
<b>ADDRESS</b> : GANESHKHIND ROAD PUNE 411005	<b>PMC REG. NO.</b> : PL000208
	<b>GSTIN/UIN</b> : N.A.
	<b>INV. NO.</b> : PMC/PL000208/2018-2019/EX-Aug
<b>PH. NO.</b> : 9890620812	<b>INV. DATE</b> : 31-Aug-2018

**BILLING PERIOD** : FROM 01-Aug-2018 TO 31-Aug-2018

INVOICE FOR - COLLECTION, STORAGE, TRANSPORTATION, PROCESSING AND FINAL DISPOSAL OF BIO-MEDICAL WASTE SAC Codes : (999424 / 999433)  
**Bill of Supply**

PARTICULARS	RECEIVED WEIGHT (Kg.)	ALLOWED WEIGHT (Kg.)	BEDS	EXCESS WEIGHT (Kg.)	RATE (Rs)	AMOUNT (Rs)
EXCESS WEIGHT INVOICING FOR Aug-2018	3,230	15,000	0	0,000	38.00	0.00

**OVERDUE INTEREST @1.00 % per month on 12419.12** 124.19

**TOTAL BILL FOR Aug-2018** 124.19

**PREVIOUS BALANCE RS.** DR 12420.39

**NET BALANCE TO BE PAID** DR 12544.58

**AMOUNT PAYABLE** Rupees Twelve Thousand Five Hundred Forty Four and Paise Fifty Eight Only

Note : Cheque/DD ( favouring 'Medical Officer of Health, PMC' ) / cash to be paid at Room 341, 3rd Floor, Health Department, PMC, Main Building, Shivajinagar, Pune-411005. Timing : 10 am to 2 pm. Phone : 020.25501232

ANY OBJECTION IN TO THIS BILL MUST BE RAISED WITHIN SEVEN DAYS.

Biomedical Waste Management Services to Clinical Establishments are exempted from GST

**GSTIN/UIN** : N.A.

*Handwritten signatures and stamps in Marathi, including 'Medical Officer of Health' and 'Pune Municipal Corporation'.*

Medical Officer of Health  
Pune Municipal Corporation

This is a computer generated invoice and does not require a signature

\* BMW ANNUAL CERTIFICATE WILL BE ISSUED ONCE IN A YEAR IN THE MONTH OF JANUARY.

*Handwritten note: 'Cheque Received' with a signature and date '20/10/18'.*

30 दिवसांच्या आत देय रकम न आल्यास दर सा १२ % व्याज आकारणी केली जाईल.



## पुणे महानगरपालिका

(घन कचरा विभाग)

आरोम्य खाते, शिवाजीनगर, पुणे ४११ ००५

वेळीची पावती: PATHOLOGICAL LAB

दिनांक: 23/Oct/2018

पावती क्र.: 54810

अर्जदाराचे नाव : PRINCIPAL, MODERN ARTS, SCIENCE & COMMERCE COLLEGE  
व्यवसायाचे नाव : MODERN ARTS, SCIENCE & COMMERCE COLLEGE GANESHKHIND ROAD  
व्यवसायाचा पत्ता : GANESHKHIND ROAD, PUNE-411053  
व्यवसायाचा प्रकार : PATHOLOGICAL LAB  
अनामत जमा दिनांक : 11/Aug/2018 कौटूंबी संख्या : 0 नोंदणी क्रमांक : PL000208  
मूळ नोंदणी क्रमांक :

शुल्क विवरण	रक्कम : (₹ पैसे)
अनामत रक्कम	12570.00
विलंबाट शुल्क (From: 01/09/2018 To: 30/09/2018)	0
इतर फी	12545.00

अक्षरी रूपये **दहा हजार**  
Rupees Twelve Thousand Five Hundred Forty Five Only

Narration: BANK OF MAHARASHTRA PUNE BR CHUND.181405.DT.19/10/2018

  
Accepted Cash Cheque  
By Municipal Corporation Health Dept  
Pune Municipal Corporation





## **Best Practice 2**

**1. Title of the practice :** Additional coaching for enhancing the career potential of advanced learners

**2. The objective of the Practice :** To strengthen basic concepts, improve computational skills and to motivate the students to pursue higherorder career opportunities in mathematics

**3. The Context :** Mathematics is a mother all disciplines. Interdisciplinary research requires the application of mathematics for analysis and interpretation. It is observed that the students are not aware of the scope and applicability in daytoday life. It is the need of the hour to apprise students about emerging opportunities and trends.

**4. The Practice :** In class, there are two different proficiency levels among students. Some are interested in mathematics but lack the basic understanding of mathematical concepts and hence cannot perform well in examinations. On the other hand, a few students are advanced learners. These students are interested in pursuing higherorder career options in mathematics. In order to enhance career potential of such students and for other interested students, the Department of Mathematics organises ‘Summer Training Program’ regularly in the second week of June for eight to ten days. Inhouse faculty members, as well as external experts, conduct lectures during the summer program. These lectures focus on basic concepts that are part of the current syllabus. Also, some additional inputs are provided. Sessions for solving complex theoretical and applicationbased problems, video lectures and interactive learning sessions are organised during this summer training program.

**5. Evidence of Success :** As an outcome of the training program, four students have cleared ‘Mathematics Talent and Training Search’ (MTTS) organised by the National Board of Higher Mathematics. Also enhanced confidence level among students is reflected in their increased participation at National level ‘Madhava’ Mathematics Competition and also in pursuit of postgraduate studies in Mathematics.

### **6. Problems Encountered and Resources Required :**

- Fear of mathematics since school years percolates during undergraduate education
- Lack of logical thinking
- Extra working hours during the regular teaching schedule