Sir M. Visvesvaraya Institute of Technology
Bangalore – 562 157

INDEX SHEET

WASTE MANAGEMENT

CRITERIA NO.: 7 **SUBCRITERIA NO.: 7.1.2**

PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

WASTE MANAGEMENT REPORT

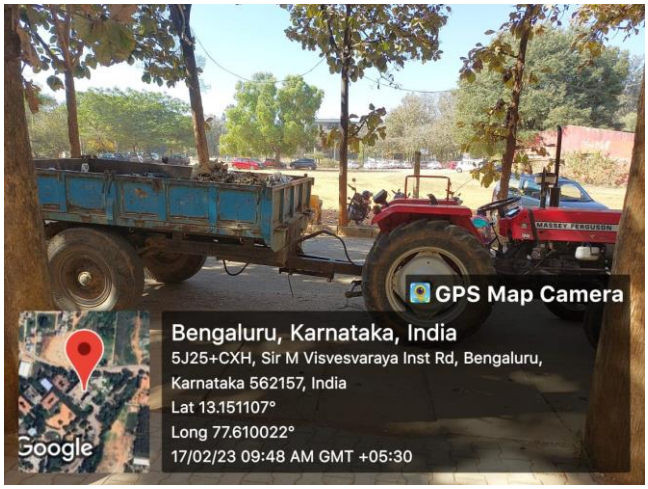
7.1.2.2 Management of the various types of Degradable and Non-Degradable waste

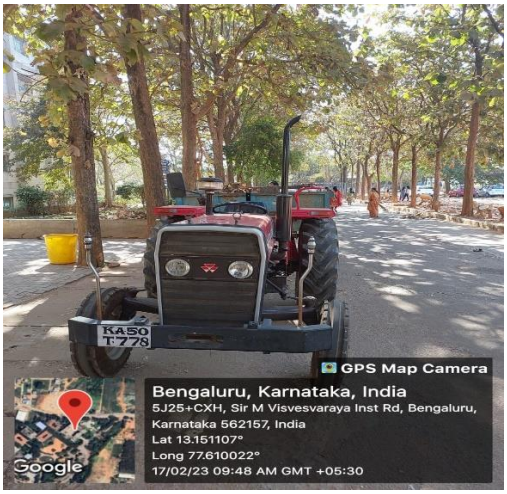
Waste management is the process and the actions required to manage waste from collecting waste to final dispose. Our institute is following several waste management process for liquid waste, solid waste etc.. where each of the waste is managed by different methods. Waste management is done to prevent the adverse effects of waste on health of students and staff.

The institute is concern about disposal of infectious wastes generated by the college is increasing rapidly due to fear of the spread of viruses such as acquired immune deficiency syndrome (AIDS) and hepatitis B, as well as the concern about exposure to toxic metals and organic. To prevent the spread of such infectious waste that finds its genesis in Bio-Medical waste, for this it is essential that professionally trained personnel handle wastes in scientific approach. So the institute has adopted the process of few waste management by its own and few others by external agencies.

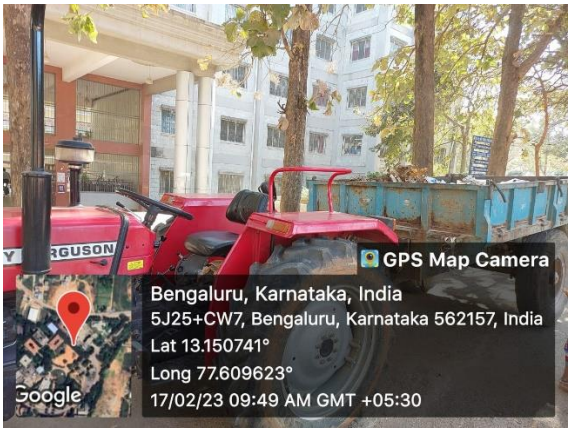
There are some SOP's followed from our institution for each of the waste management.

1. Solid waste management – Solid waste like papers, plastics, books etc.. Use and throw items like plastic plates and plastic cups in juice center are replaced by reusable steel plates, steel glasses and paper cups. The Degradable waste like leaves, papers etc.. will be collected daily by a transport vehicle like tractor and dumps the waste for composting.





Collection of Degradable and Non-Degradable waste in campus through Tractor vehicle



PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

The Non-Degradable waste will be collected by Gram panchayat, Bettahallasur village, Yelahanka, Bangalore

Food waste generated in hostels and canteen are collected in separate bins and are collected by the animal feeders.

2. Liquid waste management – In the institute waste water generated from the sanitary, it is disposed off into septic tanks located at different places in the campus. RO plant waste water is diluted and used for gardening, trees etc..

3. Biomedical waste management - The Memorandum was between the institute and M/s Prajwal BWM Management systems. The institute gives bio-medical waste in properly packed in color coded bags as per pollution control board regulations for treatment and final disposal.

Waste Collection by Grama Panchayat, Bettahalasuru, Yelahanka, Bangalore

SOP FOR DECONTAMINATION

1. Place the items to be sterilized in the autoclave.
2. Add water to the required level (Ensure the items so not float or do not sink)
3. Place the lid and lock the autoclave
4. Close all the valves
5. Switch on the Autoclave
6. Once the temperature reaches the 121 deg C and pressure reaches 15 psi, wait for 15 minutes

PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

7. Switch off the autoclave
8. Steam is released
9. Open the lid and discard the items

4. e-waste management – As the institute will upgrade the computer labs, by purchasing new configuration computers. The older computers, printers, mouse, keyboards will be treated as e-waste. These e-waste is disposed off through vendors safely.

5. Hazardous chemicals and radioactive waste management – This process of waste management will be conducted internally in the institute in the Department of Biotechnology.

To lay down the procedure for cleaning, disinfecting and sterilizing glassware used in the microbiology laboratory. If the equipment used in microbiology is not cleaned properly, the microbiological results may get affected due to contamination.

1. Keep all the glassware used in Microbiology in the cabinet provided for the same.
2. Do not use the glassware in the chemical laboratory.
3. Whenever glassware is used for microbiological analysis, dispose the inoculated media at the end of the inoculation period as per the procedure described in “SOP for disposal of Media”.
4. After disposal of the media, dip all the infected glassware in 3% v/v Dettol solution for 30 minutes OR dip all the glassware in labolin solution for one hour.
5. Wash all the glassware in running tap water till there are no traces of Dettol or teepol/labolin.
6. After washing, dry all the glassware in an oven at 120-degree Celsius for 60 mins.
7. Keep all the glassware in their respective containers.
8. Once in a month or as recommended my microbiologist, dip the glassware in the chromic acid mixture and keep it overnight. While handling chromic acid mixture use safety goggles and rubber gloves.
9. Remove the glassware carefully from the chromic acid mixture.
10. Wash the glassware thoroughly with tap water till the absence of traces of cleaning agent

PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

WASTE MANAGEMENT
GEOTAG PHOTOS

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

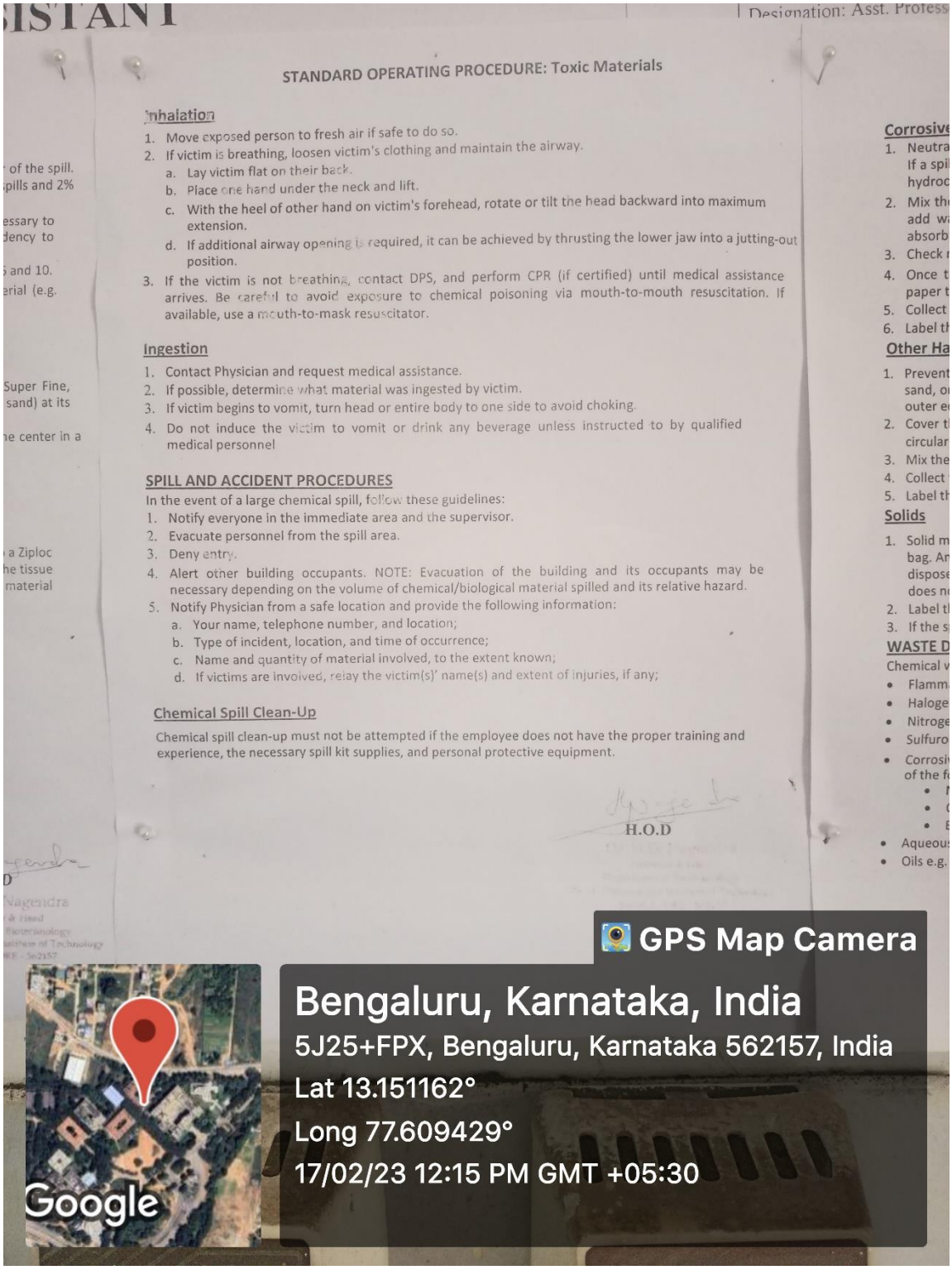
Krishnadevarayanagar, Hunasamaranahalli, International Air Port Road, Bangalore-562 157.

(Affiliated to Visvesvaraya Technological University, Recognised by AICTE & Accredited by National Board of Accreditation, New Delhi. An ISO 9001 : 2008 Certified Institution)

Ph. : 080-2846 7248, 2847 7024/25/26 Fax : 080-2846 7081

E-mail : principal@sirmvit.edu; sirmvitbgl@gmail.com, Web : www.sirmvit.edu

Waste segregation and collecting Geotag photos



SOP for Toxic Materials displayed in Biotechnology Department notice board

PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

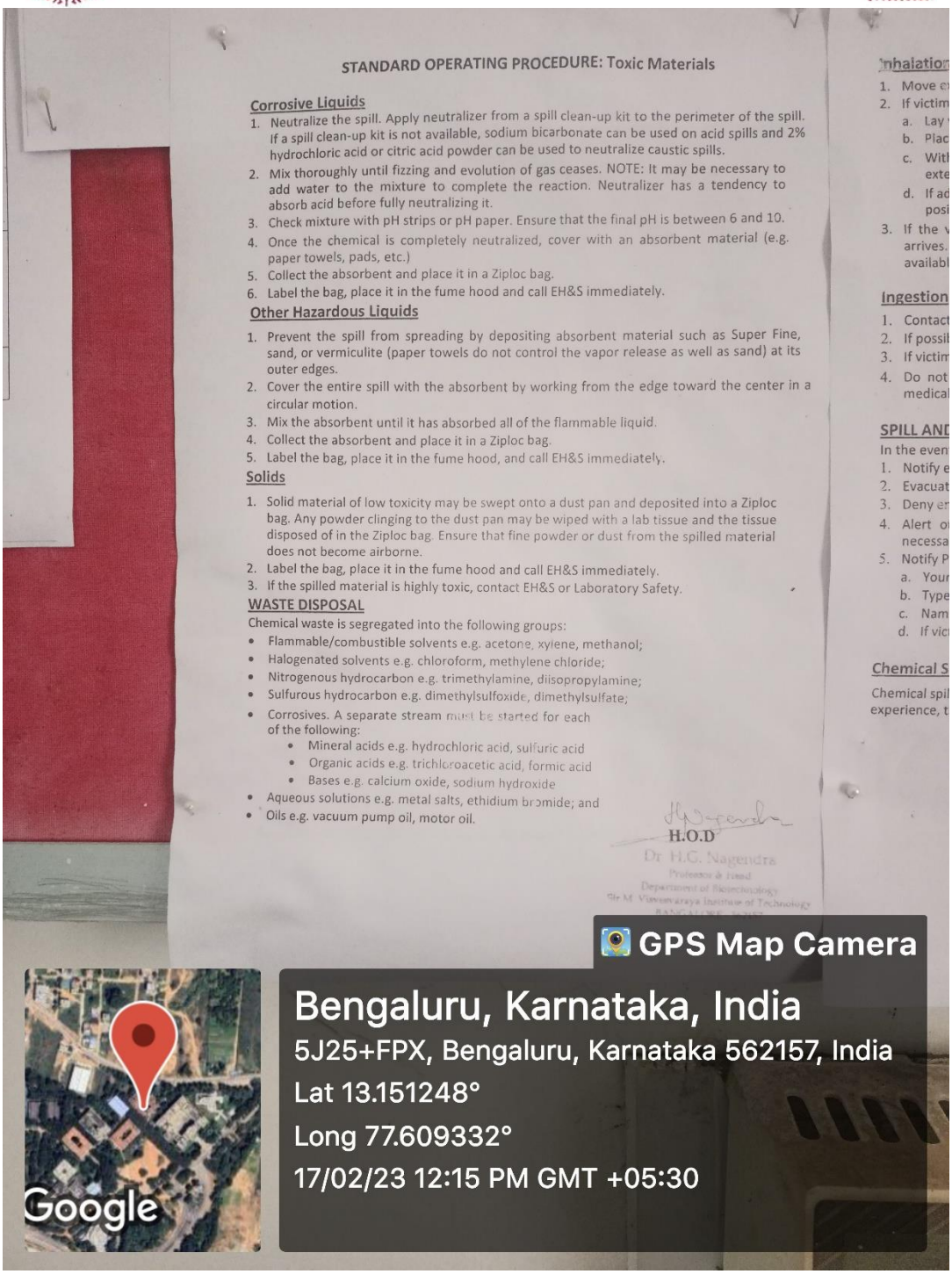
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, International Air Port Road, Bangalore-562 157.

(Affiliated to Visvesvaraya Technological University, Recognised by AICTE & Accredited by National Board of Accreditation, New Delhi. An ISO 9001 : 2008 Certified Institution)

Ph. : 080-2846 7248, 2847 7024/25/26 Fax : 080-2846 7081

E-mail : principal@sirmvit.edu; sirmvitbgl@gmail.com, Web : www.sirmvit.edu



SOP for Toxic Materials displayed in Biotechnology Department notice board

PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

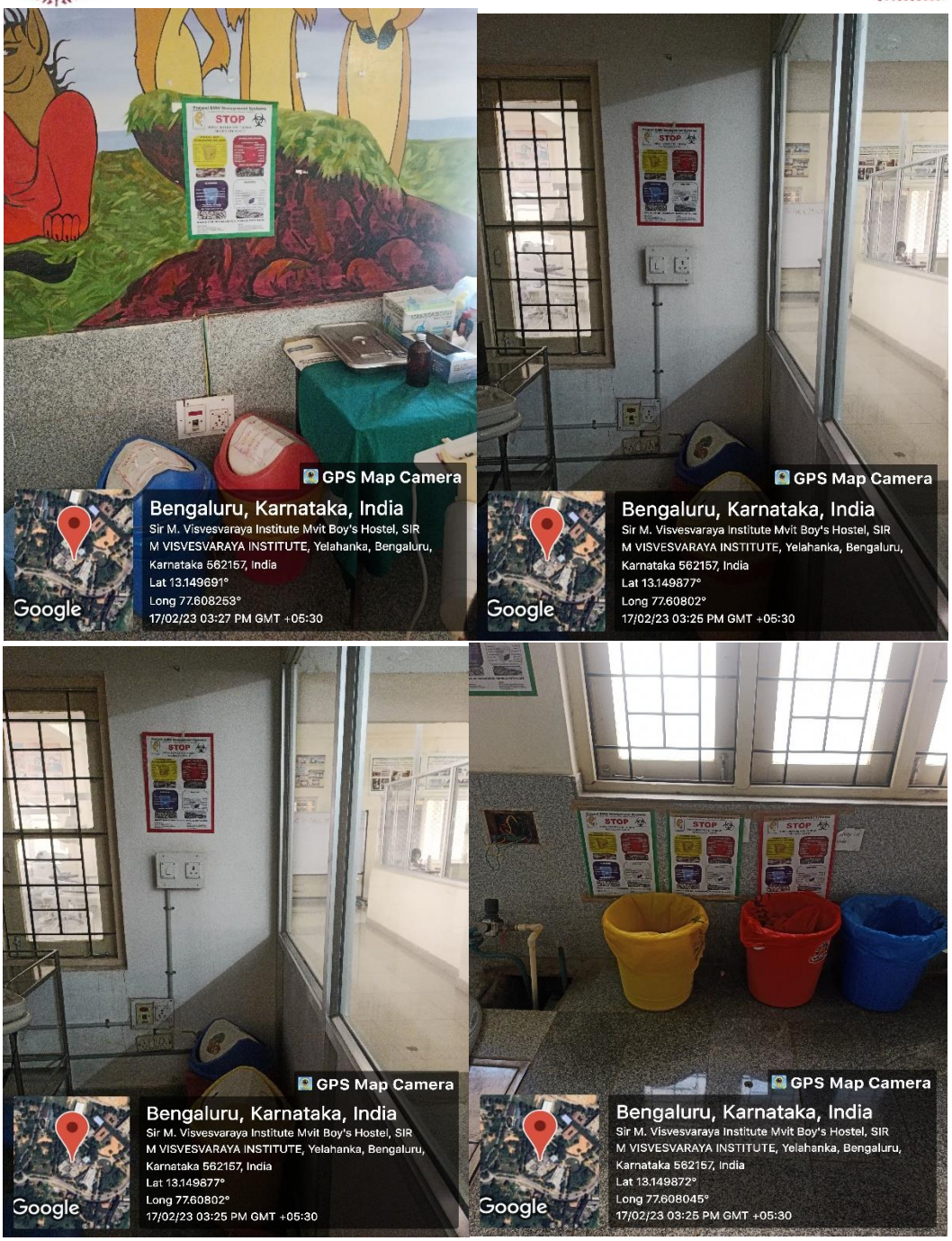
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, International Air Port Road, Bangalore-562 157.

(Affiliated to Visvesvaraya Technological University, Recognised by AICTE & Accredited by National Board of Accreditation, New Delhi. An ISO 9001 : 2008 Certified Institution)

Ph. : 080-2846 7248, 2847 7024/25/26 Fax : 080-2846 7081

E-mail : principal@sirmvit.edu; sirmvitbgl@gmail.com, Web : www.sirmvit.edu



Biomedical Waste collection and segregation

PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

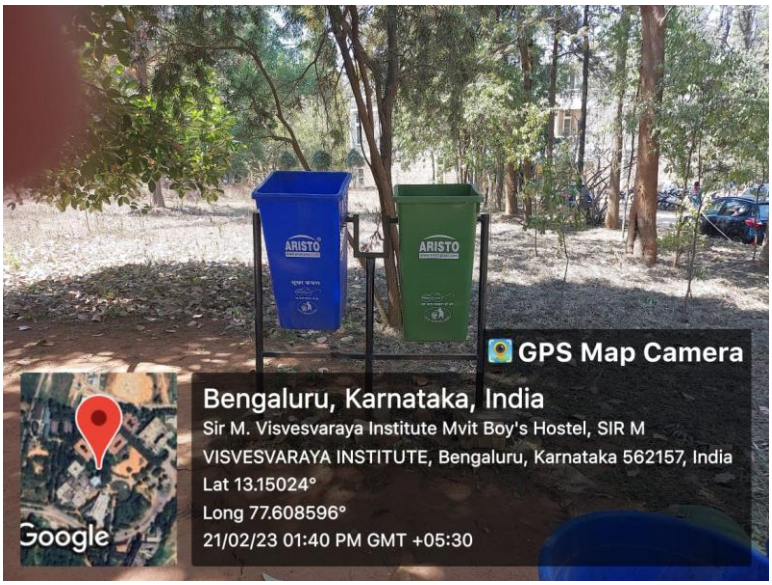
SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

Krishnadevarayanagar, Hunasamaranahalli, International Air Port Road, Bangalore-562 157.

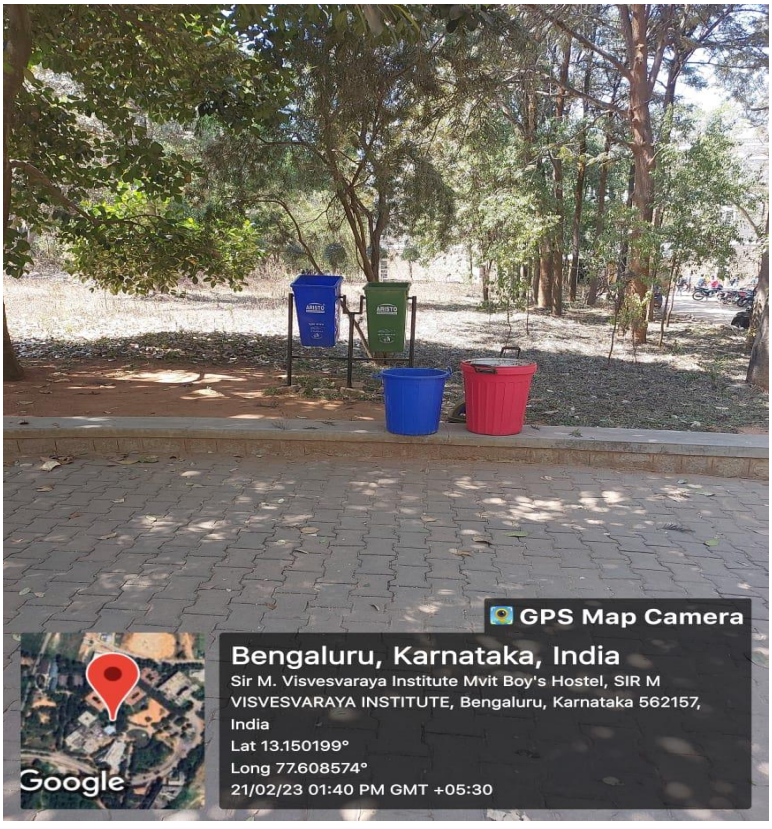
(Affiliated to Visvesvaraya Technological University, Recognised by AICTE & Accredited by National Board of Accreditation, New Delhi. An ISO 9001 : 2008 Certified Institution)

Ph. : 080-2846 7248, 2847 7024/25/26 Fax : 080-2846 7081

E-mail : principal@sirmvit.edu; sirmvitbgl@gmail.com, Web : www.sirmvit.edu



Dry and wet waste Collecting Dustbins in the Campus



Dry and wet waste Collecting Dustbins in the Campus

PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

SRI KRISHNADEVARAYA EDUCATIONAL TRUST

SIR M. VISVESVARAYA INSTITUTE OF TECHNOLOGY

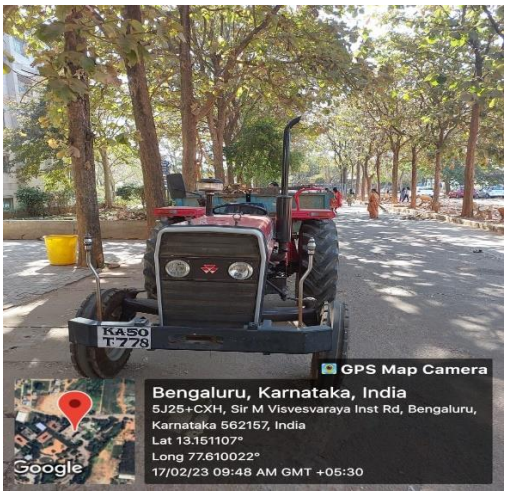
Krishnadevarayanagar, Hunasamaranahalli, International Air Port Road, Bangalore-562 157.

(Affiliated to Visvesvaraya Technological University, Recognised by AICTE & Accredited by National Board of Accreditation, New Delhi. An ISO 9001 : 2008 Certified Institution)

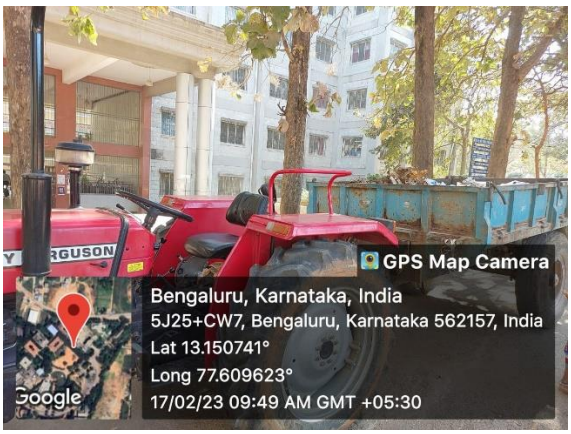
Ph. : 080-2846 7248, 2847 7024/25/26 Fax : 080-2846 7081

E-mail : principal@sirmvit.edu; sirmvitbgl@gmail.com, Web : www.sirmvit.edu

Waste Collection by Grama Panchayat, Bettahalasuru, Yelahanka, Bangalore



Collection of Degradable and Non-Degradable waste in campus through Tractor vehicle



PRINCIPAL
Sir M. VISVESVARAYA INSTITUTE OF TECHNOLOGY
Krishnadevarayanagar, Hunasamaranahalli,
International Airport Road, Bangalore-562 157.

WASTE MANAGEMENT
ECOGRAM MOU

ECOGRAM

Memorandum of Understanding (MoU)

between

TAICT (EcoGram project)

and

Sir M Visvesvaraya Institute of Technology

2022-2023

The **EcoGram Project**, an initiative by The Anonymous Indian Charitable Trust (TAICT), has established a waste management system in Bettahalasur Panchayat. We organise door to door collection from village waste generators and run several awareness programs to increase our coverage and improve compliance with Solid Waste Management Rules 2016. **The EcoGram Project collects segregated wet(organic), dry (recyclable) and reject / sanitary waste against actuals for a fee**

- All organic waste is composted in trenches/windrows at the EcoHub. All dry waste is further sorted at the EcoHub. EcoHub is the waste processing facility that has been set up on the land provided by the Zilla Panchayat. You are welcome to visit the EcoHub at any time barring Sundays and government holidays.
- We have started charging for mixed waste collection as a penalty and not as a norm.
- Waste given in disposable plastic garbage bags will not be accepted. Sanitary waste to be given in non-chlorinated plastic bags specifically meant for biohazard waste.

Please call Pavithra at +91 90669 79794 for complaints and queries

Terms of Operations

EcoGram Rate Card

ECOGRAM

Waste Collection Rate Card

We ensure that your waste is collected and recycled ethically and appropriately - reducing your carbon footprint and enhancing the livelihood of the informal waste sector.

Distance from EcoGram DWCC	Rs 8 / km (to and from destination)
Dry Waste	Rs 2 per kg
Wet Waste	Rs 2 per kg
Reject / Sanitary Waste	Rs 6 per kg
Mixed Waste	Rs 10 per kg
E Waste	On demand, tube lights and bulbs are collected against a fee of Rs 12/unit
Jumbo Bags	Rs 35 per bag used
Sanitary Waste Bags	Rs 236 per kg

Please Note: Fees are subject to revisal. Final bill sent will include an additional 18% GST

Terms and conditions:

- Waste should be segregated at source. If need be, training for housekeeping staff can be conducted.
- Method of segregation (as per high court order):

1 1

- Specific days will be allocated for the collection of waste (e.g. one particular day of every month/fortnight for dry waste), and the pickups will be planned accordingly. In the contingent circumstance of non-availability of service on a particular day of collection, Bulk Generator

representative will be notified a day in advance, and the collection will take place within the next working day.

- EcoGram Project Coordinator will be available on phone during normal working hours (9am to 5pm) on weekdays for addressing the queries and taking feedback on the services. **Project Coordinator: Pavithra +91 90669 79794**

Method of payment

An invoice will be sent once a month, and the payment be made by cheque or cash within 15 days.

Termination of services

This MoU will be binding throughout the period of services offered by TAICT. In case either of the parties wishes to terminate the relationship prematurely, a month's notice will have to be provided by the entity initiating the termination.

Validity of the MoU

This MoU will be valid for a period of 1 year from the date of signing, unless either party wants to terminate it before the maturity of the MoU. Thereafter, the MoU will have to be signed for continuance of services.

Declaration

I hereby agree to the clauses mentioned in the MoU, and am willing to sign an undertaking for commencement of operations with TAICT. The signature hereunder reflects my consent for all the terms and agreements mentioned above.

TAICT	Customer signature
Date:	Date:

The Anonymous Indian Charitable Trust (TAICT), is registered as an Indian Charitable Trust, registration number: DIT(E)BLR/12A/G-283/AACTA3936D/ITO(E)-1/VOL2013-2014.

WASTE MANAGEMENT

COLLECTING AND SEGREGATTING POSTERS

ಇಕೋಗ್ರಾಮ್®

Panchayati Raj

EMBASSY REIT

ಬೆಟ್ಟಹಲಸೂರು ಗ್ರಾಮ ಪಂಚಾಯಿತಿ

ಜಾಲ ಹೋಬಳಿ, ಯಲಹಂಕ ತಾಲ್ಲೂಕು, ಬೆಂಗಳೂರು ನಗರ ಜಿಲ್ಲೆ

ಸ್ವಚ್ಛ ಗ್ರಾಮ, ಆರೋಗ್ಯಕರ ಭವಿಷ್ಯ

ದಯವಿಟ್ಟು ನಿಮ್ಮ ಕಸದ 2 ಬುಟ್ಟಿಗಳನ್ನು ಮತ್ತು ಬ್ಯಾಗ್ ಅನ್ನು ಈ ಸಮಯಕ್ಕೆ ಮೊದಲು _____

ಮನೆಯ ಹೊರಗೆ ಇಡಬೇಕು ಈ ದಿನಗಳಂದು, ಸೋಮವಾರ /ಮಂಗಳವಾರ/ಬುಧವಾರ/ಗುರುವಾರ/ಶುಕ್ರವಾರ/ಶನಿವಾರ

ಕಸವನ್ನು ಬಿಸಾಡುವುದು ಅಥವಾ ಸುಡುವುದು ಕಂಡುಬಂದಲ್ಲಿ ಬೆಟ್ಟಹಲಸೂರು ಗ್ರಾಮ ಪಂಚಾಯಿತಿ ವತಿಯಿಂದ 1000 ರುಪಾಯಿ ದಂಡ ವಿಧಿಸಲಾಗುತ್ತದೆ.

ಹೆಚ್ಚಿನ ಮಾಹಿತಿಗಾಗಿ, ಸಂಪರ್ಕಿಸಿ 9535234703.

ECOGRAM®

Clean village, healthy future

Please keep your 2 bins and 1 bag in front of your house before this TIME: _____

On: Monday / Tuesday / Wednesday / Thursday / Friday / Saturday

Dumping or burning waste will result in a fine of Rs 1000/- by the Bettahalasur Gram Panchayat.

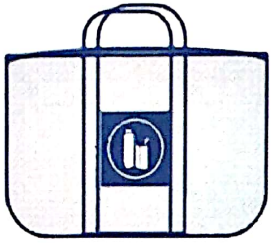
For any questions, call 9535234703.

Segregation at Source is Mandatory.

ಕಸವನ್ನು ಮೂಲದಲ್ಲಿಯೇ ವಿಂಗಡಿಸುವುದು ಅನಿವಾರ್ಯ.

ECOGRAM® EMBASSY

Organic Waste
ಹಸಿ ಕಸ



Recyclable Waste
ಒಣ ಕಸ

Reject/Sanitary Waste
ತಿರಸ್ಕರಿಸಿದ ಕಸ

Garbage in Plastic Bags will not be accepted
ಪ್ಲಾಸ್ಟಿಕ್ ಚೀಲಗಳಲ್ಲಿ ಕೂಡಿಸಿಟ್ಟ ಕಸವನ್ನು ಸ್ವೀಕರಿಸಲಾಗುವುದಿಲ್ಲ

2 bin 1 bag
www.2bin1bag.in

FOR FURTHER ENQUIRIES , CALL 9535234703

KITCHEN WASTE MANAGEMENT

SIR MVIT & KCDS LADIES HOSTEL

BANGALORE – 562 157

Ref: No. LH/250 /F07/KET Corres/2019-20 Date: 11.07.2019

To:
The Hon.Secretary,
Sri KET,
Bangalore.

Through: The Principal, Sir MVIT.

Respected Sir,

Subject: Proposal for Kitchen waste composting system at Sir MVIT & KCDS Hostels and Leaves composter for Hostels & College Campus-reg.

With reference to the above, we wish to bring your kind notice that around 60 to 100 kgs. of kitchen waste (vegetable peels, used tea & coffee powder etc.,) is produced per day from both Sir MVIT and KCDS Ladies and Men's Hostel. At present we are disposing this waste directly to the pit near the hostel.

Also a lot of dry leaves are collected in the entire campus and these leaves are cleared by burning, which is polluting our beautiful campus.

As per NAAC (National Assessment and Accreditation Council) under Criteria-7 – Institutional Values & Best Practices, with respect to Waste management, there is a weightage, if this waste is composted.

Also in the uploaded Self Study Report of NAAC, we have claimed that we are composting the leaves collected in the campus. At present, we are not composting, we are burning the leaves.

Composting leaves is the most eco-friendly alternative to burning. Leaf burning leads to air pollution, health problems and fire hazards. Leaf smoke may also contain hazardous chemicals such as carbon monoxide, which can bind with hemoglobin in the bloodstream and reduce the amount of oxygen in the blood and lungs leading to asthma or other lung or heart diseases.

Forwarded with Best Compliments to the Secretary for n.a

PRINCIPAL
Sir M.V.I.T., Bangalore-562 157.

This will add value for Green initiative which is going to fetch value & weightage of Marks for NBA

Hence, we are requesting you to kindly accord permission to install kitchen waste composter and Leaves composter as listed below.

Sl. No.	Composter	Quantity	Location
1	* Kitchen Waste Composter	2	Sir MVIT & KCDS Ladies Hostel – 1 No. Sir MVIT & KCDS Men's Hostel – 1 No.
2	Leaves Composter	2	Sir MVIT & KCDS Ladies Hostel -1 No. Sir MVIT Campus – 1 Nos.

* Kitchen Waste Composter requires 15 ft x 15 ft shed (Only Roof and strong flooring is required to protect from Sun & Rain).

** 1/3rd of the Consumables cost can be reduced, once first output (After 2-3 months) is produced from Kitchen Waste Composter.

Yield : For 2 ½ tractor load of dry leaves, an output of 1 ton compost will be produced. This can be used for the entire campus. Also, it can be sold @ Rs. 10 per kg to nearby horticulture farms/farmers.

Kindly do the needful.

Thanking you.

Yours sincerely,

(DR. V. SHANTHA)
WARDEN- Sir MVIT & KCDS Ladies Hostel

Encl.: 1. Benefits of Composting.
2. Quotation received from "Soil Earth" with respect to Supply of kitchen waste composting system and leaves composter.

SOIL HEALTH
#11, Green fields-2, Gubbalala cross, Kanakapura Road, Bangalore-560062
Email :Vasuki.iyengar@gmail.com
GSTIN- 29AAKPI7439M1ZZ Mob:9845690778

QUO#:352

QUOTATION

Date:11-07-2019

Prepared for
Sir M Visvesvaraya Institute of Technology
International Airport Road, Hunasamaranahalli, Yelahanka,
Bengaluru, Karnataka 562157.
GST:N/A

Sl no	Particulars	HSN Code	Qty	Rate	Amount(INR)
01	**Ghana – Kitchen waste composter** – Capacity of 40-50kg of wet waste processing per day SGST at 6% CGST at 6%	8479	2	80,000	1,60,000 9,600 9,600
02	**Shishira-Garden leaf and flower composter**:5ft DiaX5ft Height with 4ft perforated GI Sheet with ,epoxy coated to delay rusting, includes 6bioclean blocks and1kg neem powder SGST at 6% CGST at 6%	8479	02	20,000	40,000 2,400 2,400
03	**Installation and training** SGST at 9% CGST at 9%				20,000 1,800 1,800
04	**Bioclean blocks**(first 30days) SGST at 2.5% CGST at 2.5%	53050040	60	275	16,500 413 413
05	**Cement Blocks**		100	60	6,000
06	**Tools and equipments** (tub ,rake, Tarpaulin sheet etc)				3,000
07	**Transportation**				2,900
				Sub Total	**2,75,026**
				Total Amount Payable	**2,75,026**

Note: This *price is only valid for a2 month period starting from the date of this quotation. 50% advance to be paid by the customer while confirming the order. 50 cement blocks to be provided by the customer to create*

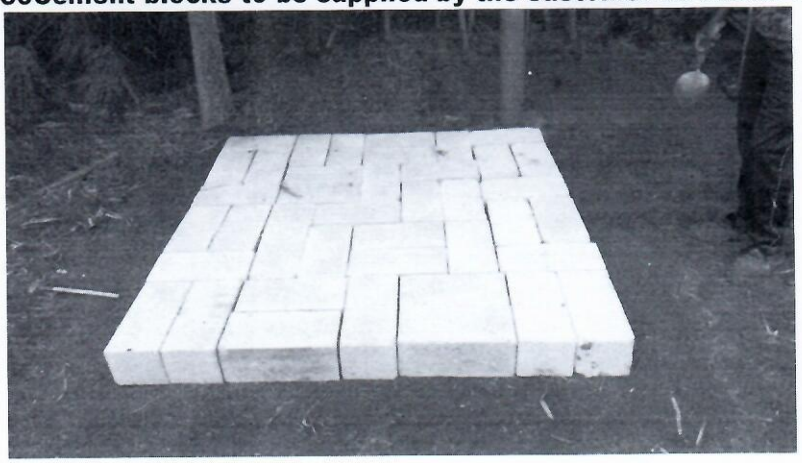
A/C Number 50200027552109
Name: Soil and health solutions
Account type: Current
Bank Name : HDFC bank
IFSC : HDFC00003635

Cheques payable to "Soil and Health Solutions"

SOIL HEALTH
#11, Green fields-2, Gubbalala cross, Kanakapura Road, Bangalore-560062
Email :Vasuki.iyengar@gmail.com
GSTIN- 29AAKPI7439M1ZZ
Mob:9845690778

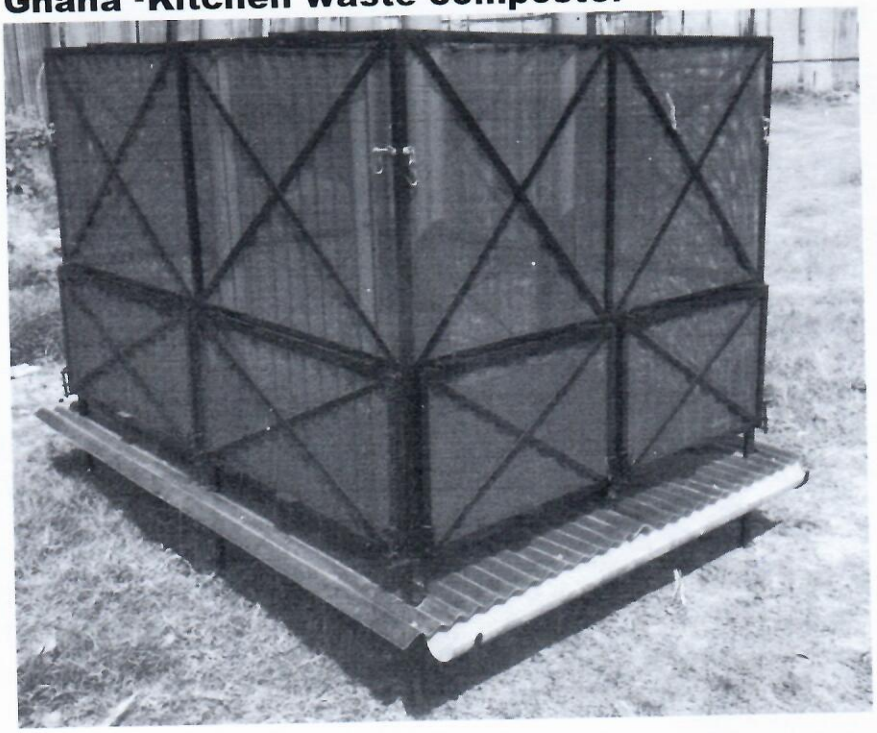
Shishira leaf composter

50Cement blocks to be supplied by the customer as shown in the below image



SOIL HEALTH
#11, Green fields-2, Gubbalala cross, Kanakapura Road, Bangalore-560062
Email :Vasuki.iyengar@gmail.com
GSTIN- 29AAKPI7439M1ZZ
Mob:9845690778

Ghana -Kitchen waste composter



WASTE MANAGEMENT

HAZARDOUS CHEMICAL MANAGEMENT

STANDARD OPERATING PROCEDURE: Toxic Materials

Corrosive Liquids

1. Neutralize the spill. Apply neutralizer from a spill clean-up kit to the perimeter of the spill. If a spill clean-up kit is not available, sodium bicarbonate can be used on acid spills and 2% hydrochloric acid or citric acid powder can be used to neutralize caustic spills.
2. Mix thoroughly until fizzing and evolution of gas ceases. NOTE: It may be necessary to add water to the mixture to complete the reaction. Neutralizer has a tendency to absorb acid before fully neutralizing it.
3. Check mixture with pH strips or pH paper. Ensure that the final pH is between 6 and 10.
4. Once the chemical is completely neutralized, cover with an absorbent material (e.g. paper towels, pads, etc.)
5. Collect the absorbent and place it in a Ziploc bag.
6. Label the bag, place it in the fume hood and call EH&S immediately.

Other Hazardous Liquids

1. Prevent the spill from spreading by depositing absorbent material such as Super Fine, sand, or vermiculite (paper towels do not control the vapor release as well as sand) at its outer edges.
2. Cover the entire spill with the absorbent by working from the edge toward the center in a circular motion.
3. Mix the absorbent until it has absorbed all of the flammable liquid.
4. Collect the absorbent and place it in a Ziploc bag.
5. Label the bag, place it in the fume hood, and call EH&S immediately.

Solids

1. Solid material of low toxicity may be swept onto a dust pan and deposited into a Ziploc bag. Any powder clinging to the dust pan may be wiped with a lab tissue and the tissue disposed of in the Ziploc bag. Ensure that fine powder or dust from the spilled material does not become airborne.
2. Label the bag, place it in the fume hood and call EH&S immediately.
3. If the spilled material is highly toxic, contact EH&S or Laboratory Safety.

WASTE DISPOSAL

Chemical waste is segregated into the following groups:

- Flammable/combustible solvents e.g. acetone, xylene, methanol;
- Halogenated solvents e.g. chloroform, methylene chloride;
- Nitrogenous hydrocarbon e.g. trimethylamine, diisopropylamine;
- Sulfurous hydrocarbon e.g. dimethylsulfoxide, dimethylsulfate;
- Corrosives. A separate stream must be started for each of the following:
    - Mineral acids e.g. hydrochloric acid, sulfuric acid
    - Organic acids e.g. trichloroacetic acid, formic acid
    - Bases e.g. calcium oxide, sodium hydroxide
- Aqueous solutions e.g. metal salts, ethidium bromide; and
- Oils e.g. vacuum pump oil, motor oil.

H.O.D

STANDARD OPERATING PROCEDURE: Toxic Materials

Corrosive Liquids

1. Neutralize the spill. Apply neutralizer from a spill clean-up kit to the perimeter of the spill. If a spill clean-up kit is not available, sodium bicarbonate can be used on acid spills and 2% hydrochloric acid or citric acid powder can be used to neutralize caustic spills.
2. Mix thoroughly until fizzing and evolution of gas ceases. NOTE: It may be necessary to add water to the mixture to complete the reaction. Neutralizer has a tendency to absorb acid before fully neutralizing it.
3. Check mixture with pH strips or pH paper. Ensure that the final pH is between 6 and 10.
4. Once the chemical is completely neutralized, cover with an absorbent material (e.g. paper towels, pads, etc.)
5. Collect the absorbent and place it in a Ziploc bag.
6. Label the bag, place it in the fume hood and call EH&S immediately.

Other Hazardous Liquids

1. Prevent the spill from spreading by depositing absorbent material such as Super Fine, sand, or vermiculite (paper towels do not control the vapor release as well as sand) at its outer edges.
2. Cover the entire spill with the absorbent by working from the edge toward the center in a circular motion.
3. Mix the absorbent until it has absorbed all of the flammable liquid.
4. Collect the absorbent and place it in a Ziploc bag.
5. Label the bag, place it in the fume hood, and call EH&S immediately.

Solids

1. Solid material of low toxicity may be swept onto a dust pan and deposited into a Ziploc bag. Any powder clinging to the dust pan may be wiped with a lab tissue and the tissue disposed of in the Ziploc bag. Ensure that fine powder or dust from the spilled material does not become airborne.
2. Label the bag, place it in the fume hood and call EH&S immediately.
3. If the spilled material is highly toxic, contact EH&S or Laboratory Safety.

WASTE DISPOSAL

Chemical waste is segregated into the following groups:

- Flammable/combustible solvents e.g. acetone, xylene, methanol;
- Halogenated solvents e.g. chloroform, methylene chloride;
- Nitrogenous hydrocarbon e.g. trimethylamine, diisopropylamine;
- Sulfurous hydrocarbon e.g. dimethylsulfoxide, dimethylsulfate;
- Corrosives. A separate stream must be started for each of the following:
    - Mineral acids e.g. hydrochloric acid, sulfuric acid
    - Organic acids e.g. trichloroacetic acid, formic acid
    - Bases e.g. calcium oxide, sodium hydroxide
- Aqueous solutions e.g. metal salts, ethidium bromide; and
- Oils e.g. vacuum pump oil, motor oil.

H.O.D

Dr H.G. Nagendra
Professor & Head
Department of Biotechnology
Sir M. Visvesvaraya Institute of Technology
BANGALORE - 562157

STANDARD OPERATING PROCEDURE: Toxic Materials

Inhalation

1. Move exposed person to fresh air if safe to do so.
2. If victim is breathing, loosen victim's clothing and maintain the airway.
   a. Lay victim flat on their back.
   b. Place one hand under the neck and lift.
   c. With the heel of other hand on victim's forehead, rotate or tilt the head backward into maximum extension.
   d. If additional airway opening is required, it can be achieved by thrusting the lower jaw into a jutting-out position.
3. If the victim is not breathing, contact DPS, and perform CPR (if certified) until medical assistance arrives. Be careful to avoid exposure to chemical poisoning via mouth-to-mouth resuscitation. If available, use a mouth-to-mask resuscitator.

Ingestion

1. Contact Physician and request medical assistance.
2. If possible, determine what material was ingested by victim.
3. If victim begins to vomit, turn head or entire body to one side to avoid choking.
4. Do not induce the victim to vomit or drink any beverage unless instructed to by qualified medical personnel

SPILL AND ACCIDENT PROCEDURES

In the event of a large chemical spill, follow these guidelines:

1. Notify everyone in the immediate area and the supervisor.
2. Evacuate personnel from the spill area.
3. Deny entry.
4. Alert other building occupants. NOTE: Evacuation of the building and its occupants may be necessary depending on the volume of chemical/biological material spilled and its relative hazard.
5. Notify Physician from a safe location and provide the following information:
   a. Your name, telephone number, and location;
   b. Type of incident, location, and time of occurrence;
   c. Name and quantity of material involved, to the extent known;
   d. If victims are involved, relay the victim(s)' name(s) and extent of injuries, if any;

Chemical Spill Clean-Up

Chemical spill clean-up must not be attempted if the employee does not have the proper training and experience, the necessary spill kit supplies, and personal protective equipment.

H.O.D

STANDARD OPERATING PROCEDURE: Toxic Materials

Inhalation

1. Move exposed person to fresh air if safe to do so.
2. If victim is breathing, loosen victim's clothing and maintain the airway.
   a. Lay victim flat on their back.
   b. Place one hand under the neck and lift.
   c. With the heel of other hand on victim's forehead, rotate or tilt the head backward into maximum extension.
   d. If additional airway opening is required, it can be achieved by thrusting the lower jaw into a jutting-out position.
3. If the victim is not breathing, contact DPS, and perform CPR (if certified) until medical assistance arrives. Be careful to avoid exposure to chemical poisoning via mouth-to-mouth resuscitation. If available, use a mouth-to-mask resuscitator.

Ingestion

1. Contact Physician and request medical assistance.
2. If possible, determine what material was ingested by victim.
3. If victim begins to vomit, turn head or entire body to one side to avoid choking.
4. Do not induce the victim to vomit or drink any beverage unless instructed to by qualified medical personnel

SPILL AND ACCIDENT PROCEDURES

In the event of a large chemical spill, follow these guidelines:

1. Notify everyone in the immediate area and the supervisor.
2. Evacuate personnel from the spill area.
3. Deny entry.
4. Alert other building occupants. NOTE: Evacuation of the building and its occupants may be necessary depending on the volume of chemical/biological material spilled and its relative hazard.
5. Notify Physician from a safe location and provide the following information:
   a. Your name, telephone number, and location;
   b. Type of incident, location, and time of occurrence;
   c. Name and quantity of material involved, to the extent known;
   d. If victims are involved, relay the victim(s)' name(s) and extent of injuries, if any;

Chemical Spill Clean-Up

Chemical spill clean-up must not be attempted if the employee does not have the proper training and experience, the necessary spill kit supplies, and personal protective equipment.

H.O.D

WASTE MANAGEMENT
SOP FOR MICROBIOLOGY LAB

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY

DEPARTMENT OF BIOTECHNOLOGY

SOP for cleaning of microbiological Glassware with Chromic Acid Mixture.

Objective:

To lay down the procedure for cleaning, disinfecting and sterilizing glassware used in the microbiology laboratory. If the equipment used in microbiology is not cleaned properly, the microbiological results may get affected due to contamination.

Scope:

The SOP shall be applicable to Microbiological Section.

Responsibility:

Accountability:

Procedure:

1. Keep all the glassware used in Microbiology in the cabinet provided for the same.
2. Do not use the glassware in the chemical laboratory.
3. Whenever glassware is used for microbiological analysis, dispose the inoculated media at the end of the inoculation period as per the procedure described in "SOP for disposal of Media".
4. After disposal of the media, dip all the infected glassware in 3% v/v Dettol solution for 30 minutes OR dip all the glassware in labolin solution for one hour.
5. Wash all the glassware in running tap water till there are no traces of Dettol or teepol/labolin.
6. After washing, dry all the glassware in an oven at 120-degree Celsius for 60 mins.
7. Keep all the glassware in their respective containers.
8. Once in a month or as recommended my microbiologist, dip the glassware in the chromic acid mixture and keep it overnight. While handling chromic acid mixture use safety goggles and rubber gloves.
9. Remove the glassware carefully from the chromic acid mixture.
10. Wash the glassware thoroughly with tap water till the absence of traces of cleaning agent

Preparation of chromic acid mixture:

Safety goggles and gloves must be worn during the preparation of chromic acid mixture. The mixture is prepared in a hard borosilicate glass beaker. The chromic acid mixture is prepared by dissolving 200 gms of Sodium dichromate in 100 ml of distilled water. Cool the solution in an ice bath and add 1500 ml of concentrated H_2SO_4 slowly with continuous stirring. The mixture is extremely corrosive and shall be stored in a glass stoppered bottle in a safe place.

When the mixture is repetitively used for cleaning the glassware, if the mixture acquires a green colour, the mixture shall be discarded in a continuous flow of tap water.

Dr H.G. Nagendra
Professor & Head
Department of Biotechnology
Sir M. Visvesvaraya Institute of Technology
BANGALORE - 562157

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

SOP for Disposal of media

Objective:

To laydown a procedure for proper disposal of used media plates and culture tubes.

Scope:

The SOP is applicable for media disposal

Responsibility:

Accountability:

Procedure:

1. Wear rubber hand gloves and nose mask
2. Place the entire glassware along with the media content in a metal container.
3. Decontaminate the glassware at 15 PSI pressure at 121 degree celesius for 30 mins.
4. Empty the plates into a container.
5. Dilute the contents of the container with tap water and drain into the sink under running tap water
6. Empty plates shall be washed as per “SOP of cleaning of glassware“.
7. Media preparation and media decontamination activities shall not be done simultaneously.
8. For decontamination, separate autoclave (Pressure cooker) shall be used
9. Autoclavable cover used for decontamination shall not be reused.

Dr H.G. Nagendra
Professor & Head
Department of Biotechnology
Sir M. Visvesvaraya Institute of Technology
BANGALORE - 562157

WASTE MANAGEMENT
SOP FOR DECONTAMINATION

SIR M VISVESVARAYA INSTITUTE OF TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY

SOP FOR DECONTAMINATION

1. Place the items to be sterilized in the autoclave.
2. Add water to the required level (Ensure the items so not float or do not sink)
3. Place the lid and lock the autoclave
4. Close all the valves
5. Switch on the Autoclave
6. Once the temperature reaches the 121 deg C and pressure reaches 15 psi, wait for 15 minutes
7. Switch off the autoclave
8. Steam is released
9. Open the lid and discard the items

Dr H.G. Nagendra
Professor & Head
Department of Biotechnology
Sir M. Visvesvaraya Institute of Technology
BANGALORE - 562157

WASTE MANAGEMENT
BIOMEDICAL MOU

Prajwal BMW Management Systems

(A Unit of VV incin Solutions Private Limited.)

Pledged to Greener living

STOP

THINK BEFORE YOU THROW
SEGREGATE WASTE

INCINERABLE WASTE

INFECTED WASTE ANATOMICAL PARTS & LAB WASTE

- HUMAN TISSUE/ BODY PARTS
- DENTAL CASTS & EXTENDED TEETH
- ORGANS
- COTTON
- BANDAGES
- MOPS
- SWABS
- DRESSINGS
- PLACENTA
- PETUS(WITHIN 12 WEEKS OF PREGNANCY)
- PLASTER OF PARIS
- SOLID PLASTER/ BEDDING
- SANITARY NAPKINS
- MENSTURAL CLOTHS
- DIAPERS
- MASKS & EAR BUDS
- ANY PATHOLOGOCAL & SURGICAL BIIO-TECHNOLOGY WASTE

(DON'T PUT ANY PLASTIC AND SHARPS IN THIS BIN)

AUTOCLAVE WASTE

DISPOSABLE ITEMS

- SYRINGES (WITHOUT NEEDLES)
- I.V. TUBES
- CATHETERS
- DRAINS
- GLUCOSE BOTTLES
- NEEDLE CAP
- BLOOD BAGS
- URINE BAGS
- STENTS
- GLOVES
- APRONS
- VILAS
- TUBINGS

(DON'T PUT ANY SHARPS IN THIS BIN)

GLASSWARE

- BROKEN GLA
- DISCARDED GL
- CONTAMINATED
- INCLUDING MED
- VILAS
- AMPOULES
- TOXIC WASTE
- ODY IMPLANTS

KINDLY RETURN THE WASTE IN CARDBOARD BOX WITH PACKED

(DON'T PUT ANY SHARPS IN THIS BIN)

SHARP ITEMS

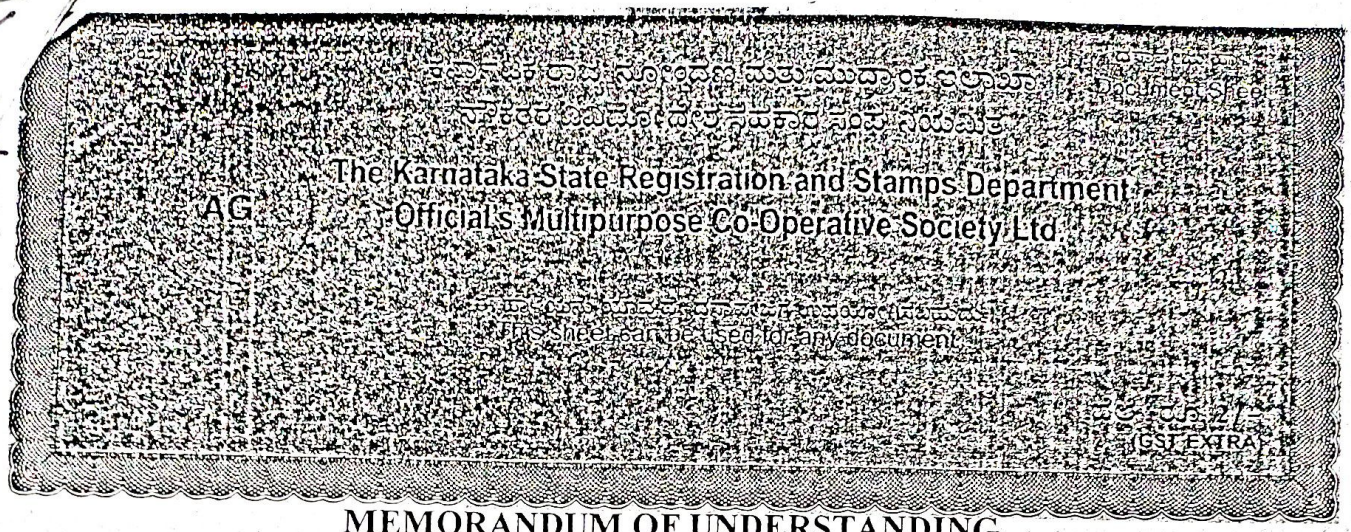
- NEEDLES
- BROKEN GLASS
- SURGICAL BLADES
- SCALPELS
- SHARPS
- AND ALL
- SLIDES
- NAILS
- LANCETS
- SCISSORS
- DANTAL
- INFLATE
- METAL ARTICLES

PUNCTURE PROOF CONTAINER

WASTE CAN BE HAZARDOUS. HANDLE WITH CARE

HEAD OFFICE :
Flat No. F- 3, Deccan Heritage Apartment,
No. 30, ITI Layout , MSR Nagar Bengaluru - 560056
Mobile : +91 9901773131, +91 9945087087, +91 9019370844
Web: www.vvincin.com

PLANT :
Plot No 56, Kudumalakunte New KIADB Industrial area
Gowribidanur Taluk - 561208, Chikkaballapur District.
Mobile: +91 9663839038, +91 8660549206, +91 7483935968
E- mail: vvincin@gmail.com



MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding is executed on this **1th day of January 2021**, by and between:

M/s. Prajwal BMW Management Systems (A unit of M/s. VV Incin Solutions Private Limited) having its Head office at No.1,2nd Floor, Roopa Complex, No.66& 67, Ganesha Layout, MS Palya, Vidyaranyapura Post, Bengaluru-560097 Hereinafter referred as CONTRACTOR (CBMWTF), Represented by its Authorized Signatory and M/s.**Krishnadevaraya College of Dental Sciences & Hospital,** Krishnadevaraya Nagar, Hunasamaranahalli, International Airport Road, (Via) Yelahanka, Bangaluru-562157, Represented by its **Principal** Hereinafter referred as **HOSPITAL** here by agreed and come to the Memorandum of Understanding as detailed below.

1. CONTRACTOR. (CBMWTF) has consent and Authorization with Pollution Control Board having a common treatment facility at Plot No.56 Kudumalakunte New KIADB Industrial Area, Gowribidanur Taluk-561208, Chikkaballapura-District for managing Bio-Medical Waste. The facility is having state of Autoclave system along with shredder and Incinerator
2. HOSPITAL gives its bio-medical waste properly packed in color coded bags (in case of amputated parts the hospital should give one letter duly signed by authorized person mentioning the patient's name, age & reason for amputation) as per pollution control board regulations for treatment and final disposal. The waste should be given at one single point by the HOSPITAL at given time of CONTRACTOR. (CBMWTF)
3. HOSPITAL during these 5 years will not enter into any kind of agreement with any other party or organization for the waste treatment and disposal unless cancellation of this agreement by obtaining NO OBJECTION CERTIFICATE from KSPCB & DHO and BBMP/Local Municipal Authorities.
4. HOSPITAL has 20 (Twenty Beds only) beds. The exact number of beds will be taken from the declaration given by the state authorities or Physical beds. The bed strength is calculated on the basis of authorized beds or Physical beds whichever is higher.
5. CONTRACTOR (CBMWTF) will charge a price of **Rs.6000/- (Six Thousand Rupees)** per month exclusive of all applicable taxes amended from time to time Up to 250 Kgs per month, if it exceeds Rs 40/- (Forty Rupees only) per Kg will be charged extra as agreed with mutually for collection, transportation, treatment and final disposal of bio-medical waste. The above price will be fixed for a period of one year from the date of the agreement and thereafter there will be 10% (Ten percent) increase in the price for every one year on existing rates.
6. HOSPITAL is assuring that the payment should be made through Account payee cheque or online transfer in favor of M/s.VV Incin Solutions Private Limited on or before 7th of every month. **We are not responsible any cash payments** & we will collect cheque bounce charges also. In case of non-receipt of payment on the agreed date from HOSPITAL on the next working day will stop the collection of waste with intimation to Karnataka state Pollution Control Board and such delayed payments for more than one month will be charged with an interest of 18% P.A.

Prajwal BMW Management Systems * A Unit of VV Incin Solutions Private Limited * Bangalore-97

Cont...2

7. CONTRACTOR. (CBMWTF) will collect properly Segregated Bio-medical waste regularly and treat the waste as per the regulations. CONTRACTOR. (CBMWTF) will not collect any waste that is not segregated or properly packed and also general garbage Like Food waste, papers, cartoon boxes And Plastics rappers Etc... Any usable materials (surgical instruments, Lab equipments, etc.) received along with the Bio-medical waste from your HCE'S, CONTRACTOR. (CBMWTF) will not responsible.

8. HOSPITAL if requested will supply the color-coded waste collection bags at a nominal rate mutually decided between CONTRACTOR. (CBMWTF) and HOSPITAL through our sister concern entity Prajwal Enterprises.

9. CONTRACTOR. (CBMWTF) will issue a proof of Bio-Medical Waste collection from HOSPITAL as per norms. This will help the individual hospital for getting compliance with the state pollution control board. The individual hospital/Nursing home can take their authorization from the pollution control board by informing the board that M/s. Prajwal BMW Management Systems (A unit of M/s. VV Incin Solutions Private Limited) treats their waste, (The same has to be mentioned in the authorization Form-1).

10. In case of HOSPITAL find any irregularities in collection waste, they can send a notice in writing to CONTRACTOR. (CBMWTF).

11. In case of collection of waste by next day under prior intimation or valid reason, the HOSPITAL may waive such penalty to the Company for that particular day.

12. CONTRACTOR. (CBMWTF) will maintain their plant in good condition all the time and ensure continuity of service on all the days without fail and get clearance from the Pollution Control Board as per regulations.

13. This Memorandum of understanding is entered into on the express understanding that CONTRACTOR. (CBMWTF) will maintain the logistics in order to collect transport and treat the waste at their plant strictly in accordance with the consent of the Karnataka State Pollution Control Board and it shall be the responsibility to obtain the consent and keep the same always in Force.

14. In case of violation of any of the agreed conditions of the MOU by either side, Issue of notice may terminate this MOU three months in advance by either party for terminating their respective obligations.

15. All disputes to this understanding are subject to the jurisdiction of the court in Bangalore.

All the above points will have legal Binding for a minimum period of 5 years from the date of this MOU.

M/s. Prajwal BMW Management Systems
(A unit of VV Incin Solution Private Limited)

Authorized Signatory

M/s. Krishnadevaraya College of Dental Sciences & Hospital

No. 2081

Authorized Signatory

Prajwal BMW Management Systems

(A Unit of VV incin Solutions Private Limited.)

H O: # 1, Second Floor, Roopa Complex,No.66 & 67, Ganesha Layout , M S Palya, Vidyaranyapura Pura Post, Bangalore - 560097
Mobile : +91 9901773131(GM), +91 8660349206, +91 7019432926
CBMWTF : Plot No 56, Kudurnalakunte New KIADB Industrial area, Gowribidanur Taluk , Chikkaballapur District. - 561208
Mobile : +91 9663839038, +91 984522986, +91 9945087087
Web site - vvincin.com, **Email** - vvincin@gmail.com

PBMWMS/KCDSH/QTN/115/2020-21

Date: 09.11.2020

To
Krishnadevaraya College Of
Dental Science & Hospital
Hunasamaranahalli
International Airport Road
Bangalore-562157

Dear Sir/Madam,

Sub: - Company Profile and Introduction letter for handling Bio-Medical waste in Scientific Manner.

With reference to the abovementioned subject, we would like to introduce ourselves as pioneers in the field of Bio-Medical Waste Management. We are glad to inform you that we have already put up a facility to manage Bio-Medical Waste in a scientific manner at KIADB Industrial Area in Plot No.56,Kudumalakunte New KIADB Industrial Area, Gowribidanur Taluk-561208,Chikkaballapura-(District) &Head Office at Roopa Complex, No. 66&67,Ganesha Layout, MSPalya, Vidyaranyapura Post ,Bengaluru-560097.

Prajwal BMW Management Systems (A unit of VV Incin Solutions Private Limited) is a company registered under the companies Act with the primary objective being Bio-Medical Waste Management. Prajwal BMWMS has set up an integrated Bio-Medical Waste Management facility, technically reliable. The intended facility shall operate on a "user-pay" principle. Each user shall contribute Prajwal BMWMS in proportion to the quantity of waste generated by them that is processed at the facility.

Prajwal Entrepreneur has highly trained and experienced professionals in the management and handling the Bio-Medical Waste. We have the Experience in the service of Bio-Medical Waste Management in the districts of Bangalore Urban, Bangalore rural, Chikkaballapura, Chitradurga, Hassan, Chikmangalore of Karnataka state from last Ten years.

Cont...2

The concern about disposal of infectious wastes generated by the **College/Hospital** is increasing rapidly due to the fear of the spread of viruses such as acquired immune deficiency syndrome (AIDS) and hepatitis B, as well as the concern about exposure to toxic metals and organic. These wastes present a high risk of causing potential damage to the human health and the environment by way of spreading. To prevent the spread of such infectious waste that finds its genesis in Bio-Medical waste (from Rehabilitation Center s, clinics, laboratories etc.,) a scientific approach is required from the beginning it is essential that professionally trained personnel handle the wastes.

Prajwal BMW Management Systems will collect the Bio-medical waste generated in your **College/ Hospital** in closed container vehicle and transported to CBMWT facility and the same will treated as per Bio-Medical waste 2016 Guidelines.

Please find attached Quotation for your reference and action.

We request you to kindly look into it and get back to us regarding the same. We lookforward to hear a favorable reply from your end at the earliest.

Thanking you and assuring you of our best services at all times.

Yours faithfully,

For Prajwal BMW Management Systems.
(A unit of V Varrich Solutions Private Limited)

Authorized Signatory.

Prajwal BMW Management Systems

(A Unit of VV incin Solutions Private Limited.)

H O: # 1, Second Floor, Roopa Complex,No.66 & 67, Ganesha Layout , M S Palya, Vidyaranyapura Pura Post, Bangalore - 560097
Mobile : +91 9901773131(GM), +91 8660349206, +91 7019432926
CBMWTF : Plot No 56, Kudumalakunte New KIADB Industrial area, Gowribidanur Taluk , Chikkaballapur District. - 561208
Mobile : +91 9663839038, +91 984522986, +91 9945087087
Web site - vvincin.com, **Email** - vvincin@gmail.com

QUOTATION

PBMWMS/KCDSH/QTN/115/2020-21

Date: 09.11.2020

To
Krishnadevaraya College Of
Dental Science & Hospital
Hunasamaranahalli
International Airport Road
Bangalore-562157

Sub: Quotation for Disposal of Bio medical Waste from your College/Hospital .... Reg
With respect to subject cited above we are here with quoting our least price for the disposal of Bio medical Waste from your College/Hospital.

Sl No	Particulars	Rate per Month (Rs)
1	Collection, Transportation, Treatment and final disposal of Bio medical waste from your Hospital/College as per norms of 2016 Biomedical waste disposal guidelines upto 200kgs,if it exceeds Rs. 40 per kg will be charged extra.	Rs.6,000/- per Month (Six Thousand Rupees Only)
2	Red/yellow/Blue polythene Liner (21"*24 " 80 GSM)	**Rs.3.75/- Per Each Liner** (Three Rupees Seventy Five Paisa Only)
3	Red/yellow/Blue polythene Liner (28"*36 " 80 GSM)	**Rs.7.50/- Per Each Liner** (Seven Rupees Fifty Paisa Only)
4	Puncture Proof Container -5 Lit Can	**Rs.100/- Per Each Can** (One Hundred Rupees Only)
5	Bar Code Sticker	**Rs.0.8/- Per Each Sticker** (Eighty Paisa per Sticker)

Terms & Conditions

- **Prajwal BMW** will collect Bio Medical Waste from common secured collection point from your College/Hospital.
- Consumables will be supplied through our sister Concern entity **Prajwal Enterprises**
- Payments should be released within 15 days from the date of invoice
- Disposal of Biomedical waste is exempted from GST hence GST is not applicable
- Taxes are Extra as Applicable for Consumables.
- Waste will be collected Twice a week.

We hope this price will be competitive and assuring you of our best services at all times.
Thanking You
Yours Faithfully

For Prajwal BMW Management Systems
(A unit of VV incin Solutions Pvt Ltd)
Authorized Signatory

ಫ್ಯಾಕ್ಸ್ / Fax : 080-25586321
ಈಮೇಲ್ / E-mail : ho@kspcb.gov.in
ವೆಬ್‌ಸೈಟ್ / Website : http://kspcb.gov.in

☎ 25581383, 2558911
25588151, 2558827
25588142, 2558652

ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ
Karnataka State Pollution Control Board

"ಪರಿಸರಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ.49, ಚರ್ಚ್‌ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ, ಭಾರತ
"Parisara Bhavana", 1st to 5th Floor, # 49, Church Street, Bengaluru - 560 001, Karnataka, INDIA

DISPATCHED

FORM –III
(See rule 10)
AUTHORISATION

(Authorisation for operating a facility for generation, collection, reception, treatment, storage, transport and disposal of biomedical wastes)

1. File number of authorisation and date of issue No.PCB/27/BMW/Reg.No.110084/2016, dated: 1 AUG 2016
2. **M/s. Prajwal BMW Management Systems., (A unit of V.V Incin Solutions).**, an occupier or operator of the facility located at **Plot No. 56, Gauribidanur New KIADB Industrial Area, Gauribidanur Taluk, Chikkaballapura District** is hereby granted an authorisation for;

Activity Please tick: ✓
Segregation✓
Collection, ✓
Storage✓
Packaging
Reception✓
Transportation✓
Treatment or processing or conversion✓
Recycling✓
Disposal or destruction use
offering for sale, transfer ✓
Any other form of handling✓

3. **M/s. Prajwal BMW Management Systems., (A unit of V.V Incin Solutions)., Plot No. 56, Gauribidanur New KIADB Industrial Area, Gauribidanur Taluk, Chikkaballapura District** is hereby authorized for handling of bio-medical waste as per the capacity given below;
   - **i)** Number healthcare facilities covered by CBMWTF: **Not Furnished**
   - **ii)** Installed treatment and disposal capacity: **200kg/hr**
   - **iii)** Area or distance covered by CBMWTF: **Karnataka state**
   - **iv)** Quantity of Bio-medical waste handled, treated or disposed: **200 kg/hr**

Type of Waste Category	Quantity permitted for handling
Yellow Red White (Translucent) Blue	95 kg/day.

3. This authorisation shall be in force for a period up to **30.06.2021** from the date of issue.
4. This authorisation is subject to the conditions stated below and to such other conditions as may be specified in the rules for the time being in force under the Environment (Protection) Act, 1986.

Date .....
Place: Bangalore

Sd/-
SENIOR ENVIRONMENTAL OFFICER

To,
The Occupier,
M/s. Prajwal BMW Management Systems.,
(A unit of V.V Incin Solutions).,
Plot No. 56, Gauribidanur New KIADB Industrial Area,
Gauribidanur Taluk, Chikkaballapura

Copy to: 1.Regional Office, **Chikkaballapura**
2. Master Register (BMW Sec)
3. Case file
4. Master copy (Despatch)

SENIOR ENVIRONMENTAL OFFICER

TERMS AND CONDITIONS.

1. The authorisation shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorised by the prescribed authority.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the biomedical wastes without obtaining prior permission of the prescribed authority.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The applicant shall take prior permission of the prescribed authority to close down the facility and such other terms and conditions may be stipulated by the prescribed authority.
6. The applicant shall take all necessary steps to ensure that the bio-medical waste collected from the occupier is transported, handled, stored, treated and disposed of, without any adverse effect to the human health and the environment, in accordance with these rules and guidelines issued by the Central Government or, as the case may be, the Central Pollution Control Board from time to time.
7. The applicant shall ensure timely collection of bio-medical waste from the occupier as prescribed under these rules.
8. The applicant shall establish bar coding and global positioning system for handling of bio- medical waste before 27.03.2017.
9. The applicant shall inform the prescribed authority immediately regarding the occupiers which are not handing over the segregated bio-medical waste in accordance with these rules.

10. The applicant shall provide training for all its workers involved in handling of bio-medical waste at the time of induction and at least once a year.
11. The applicant shall assist the occupier in training conducted by them for bio-medical waste management.
12. The applicant shall undertake appropriate medical examination at the time of induction and at least once in a year and immunise all its workers involved in handling of bio-medical waste for protection against diseases, including Hepatitis B and Tetanus, that are likely to be transmitted while handling bio-medical waste and maintain the records for the same.
13. The applicant shall ensure occupational safety of all its workers involved in handling of bio-medical waste by providing appropriate and adequate personal protective equipment.
14. The applicant shall report major accidents including accidents caused by fire hazards, blasts during handling of biomedical waste and the remedial action taken and the records relevant thereto. (including nil report) in Form I to the prescribed authority **and also** along with the annual report.
15. The applicant shall maintain a log book for each of its treatment equipment according to weight of batch; categories of waste treated; time, date and duration of treatment cycle and total hours of operation.
16. The applicant shall allow occupier, who are giving waste for treatment to the operator, to see whether the treatment is carried out as per the rules.
17. The applicant shall display details of authorization, treatment, annual report etc on its web-site.
18. The applicant shall after ensuring treatment by autoclaving or microwaving followed by mutilation or shredding, whichever is applicable, the recyclables from the treated bio-medical wastes such as plastics and glass, shall be given to recyclers having valid consent or authorization or registration from State Pollution Control Board.
19. The applicant shall supply non-chlorinated plastic coloured bags to the occupier on chargeable basis, if required.
20. The applicant shall ensure collection of biomedical waste on holidays also.
21. The applicant shall maintain all record for operation of incineration, hydro or autoclaving for a period of five years.
22. The applicant shall upgrade existing incinerators to achieve the standards for retention time in secondary chamber and Dioxin and Furans within two years from the date of this notification.
23. The applicant shall comply to all provisions of the Bio-Medical Waste Management Rules, 2016.
24. The applicant shall apply for the renewal of authorization at least 30 days before the expiry of this authorization.

SENIOR ENVIRONMENTAL OFFICER

Dinesh B.K *M.Sc. Agri*
General Manager

Mobile : +91 9901773131

Pledged to Greener Living

Prajwal BMW Management Systems

(A Unit of VV Incin Solutions Private Limited.)

HO: Flat No F-3, Deccan Heritage Apartment,
No. 30,ITI Layout, MSR Nagar, Bengaluru-560056
Mobile : +91 9845922986, +91 8660590043

Email- vvincin@gmail.com, Web site- vvincin.com

Bio Medical Waste Management Company

CBMWTF : Plot No 56, Kudumalakuntte Industrial Area,
KIADB,Gowribidanur Tq, Chikkaballapur Dist-561208
Mobile : +91 9663839038, +91 8660549206

Prajwal BMW Management Systems

(A Unit of VV Incin Solutions Private Limited.)

H.O. : # 1, 2nd Floor, 'Roopa Complex', No. 66 & 67, Ganesha Layout, M.S. Palya, Vidyaranyapura Post, Bengaluru - 560097.
Mobile : +91 9901773131(GM). +91 8660349206, + 91 7019432926
CBMWTF : Plot No. 56, Kudumalakunte New KIADB Industrial Area, Gowribidanur Taluk, Chikkaballapur District - 561208.
Mobile : +91 9663839038, +91 9845922986, +91 9019966832
E-mail : vvincin@gmail.com, Website : vvincin.com

Pledged to Greener living

COMMON BIO MEDICAL WASTE TREATEMENT DISPOSAL FACILITY (CBMWTF)

Certificate of Membership

This is to certify that M/s. KRISHNADEVARAYA COLLEGE OF DENTAL SCIENCES & HOSPITAL is a member of **Prajwal BMW Management Systems,** Gowribidanur Taluk, Chikkaballapur Dist. Bearing Registration No. 2081 **Prajwal BMW** is providing Bio-Medical Waste Management services to the above customer from 01st JANUARY 2021 for a total **bed-strenght of** – 20 BEDS ONLY –

Prajwal BMW Management Systems * A Unit of VV Incin Solutions Private Limited * Bengaluru

Authorised Signatory

This certificate is valid upto 31st DECEMBER 2021