JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
(DEEMED TO BE UNIVERSITY) MYSURU

COMPENDIUM ON SUSTAINABLE DEVELOPMENT GOALS 2023

SDG 12

RESPONSIBLE CONSUMPTION AND PRODUCTION

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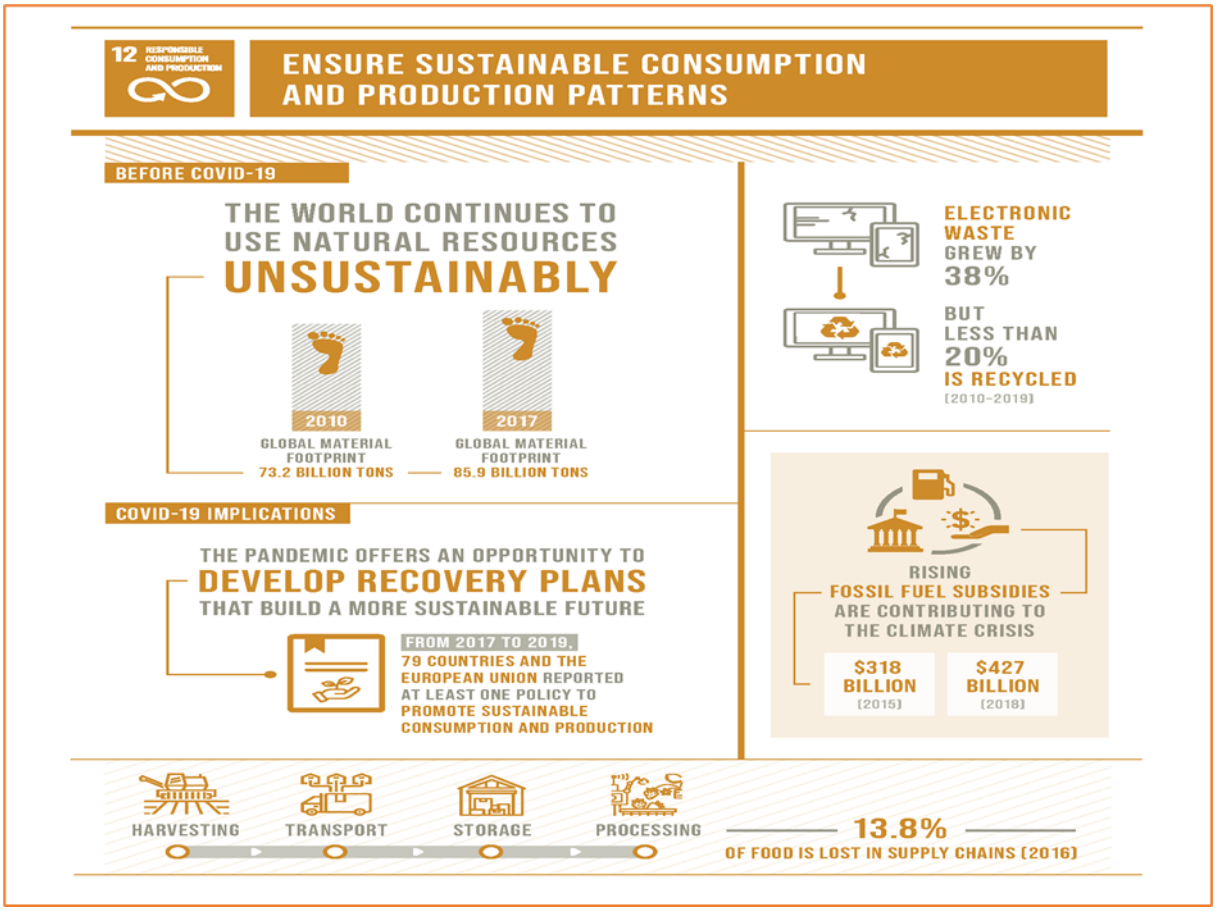
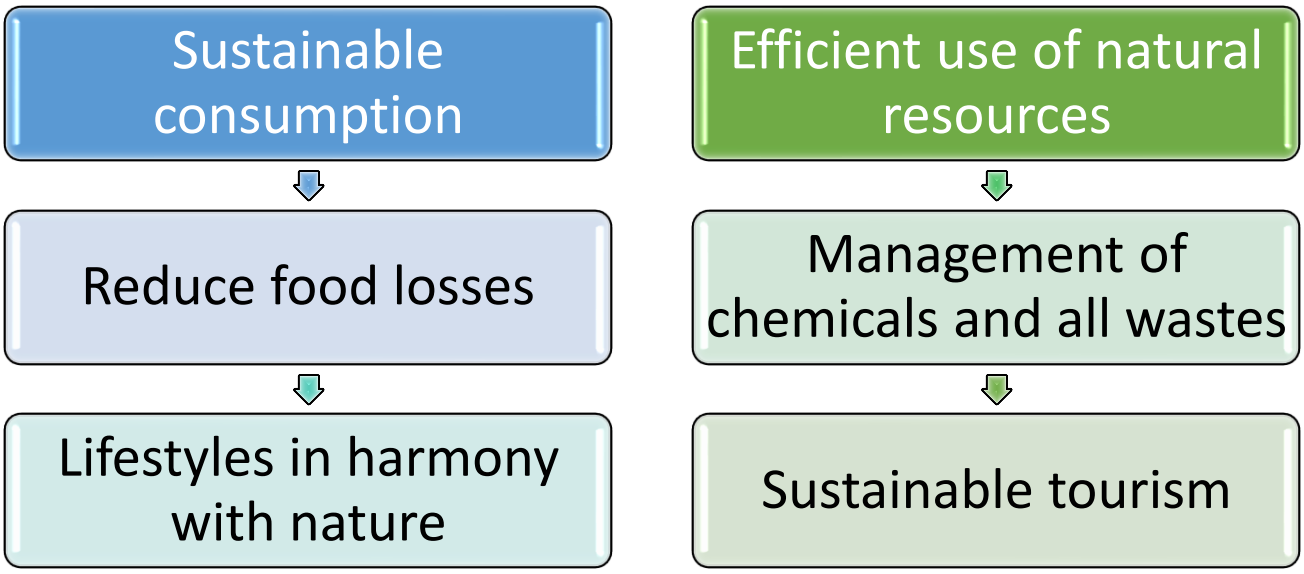
GOAL 12. ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

Sustainable Development Goal 12 aims at ensuring sustainable consumption and production patterns. SDG 12 is about promoting resource and energy efficiency, sustainable infrastructure, and providing access to basic services, green and decent jobs and a better quality of life for all. Its implementation helps to achieve overall development plans, reduce future economic, environmental and social costs, strengthen economic competitiveness and reduce poverty. Sustainable consumption and production aims at "doing more and better with less", increasing net welfare gains from economic activities by reducing resource use, degradation and pollution along the whole lifecycle, while increasing quality of life.



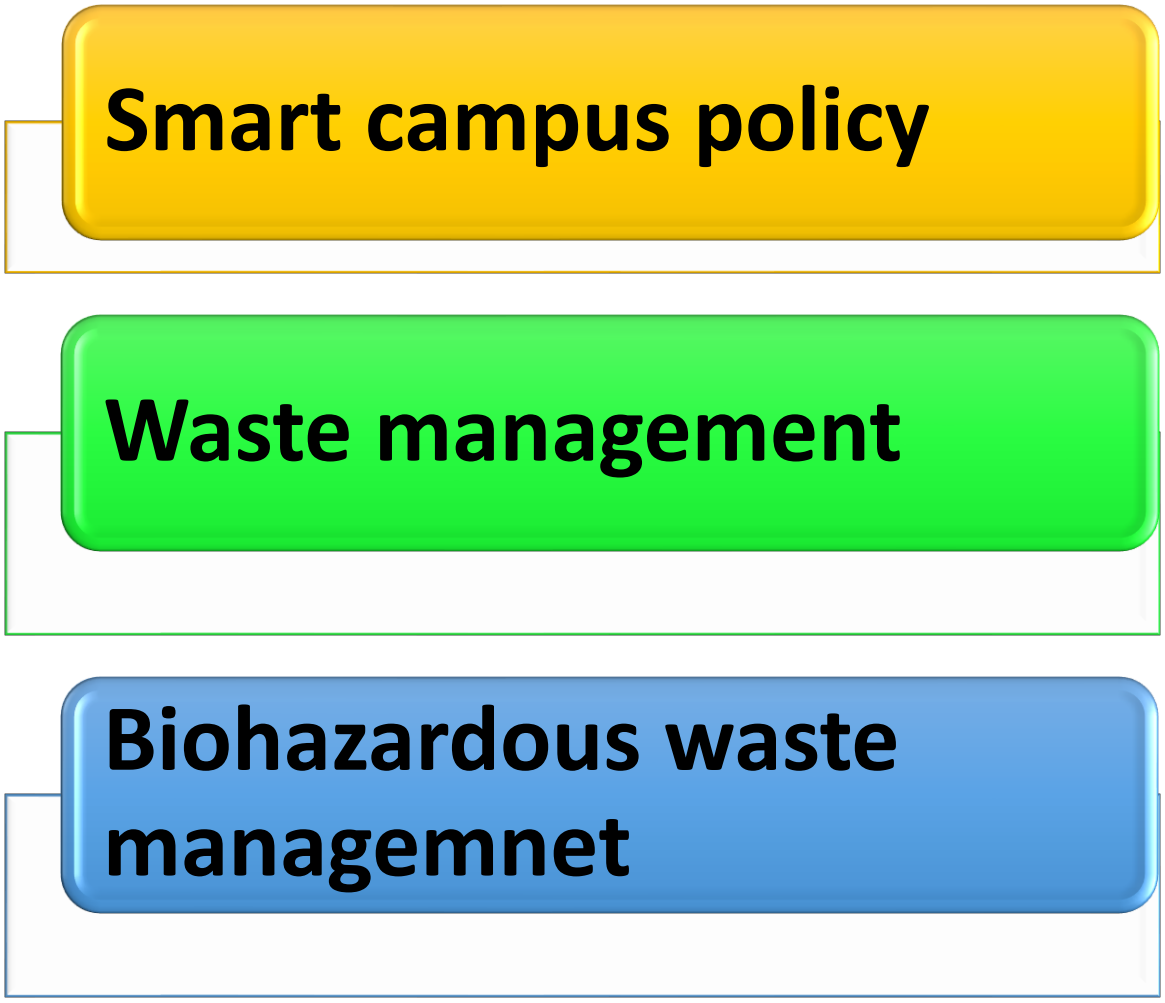
OUR TARGETS TOWARDS RESPONSIBLE CONSUMPTION AND PRODUCTION (SDG 12)

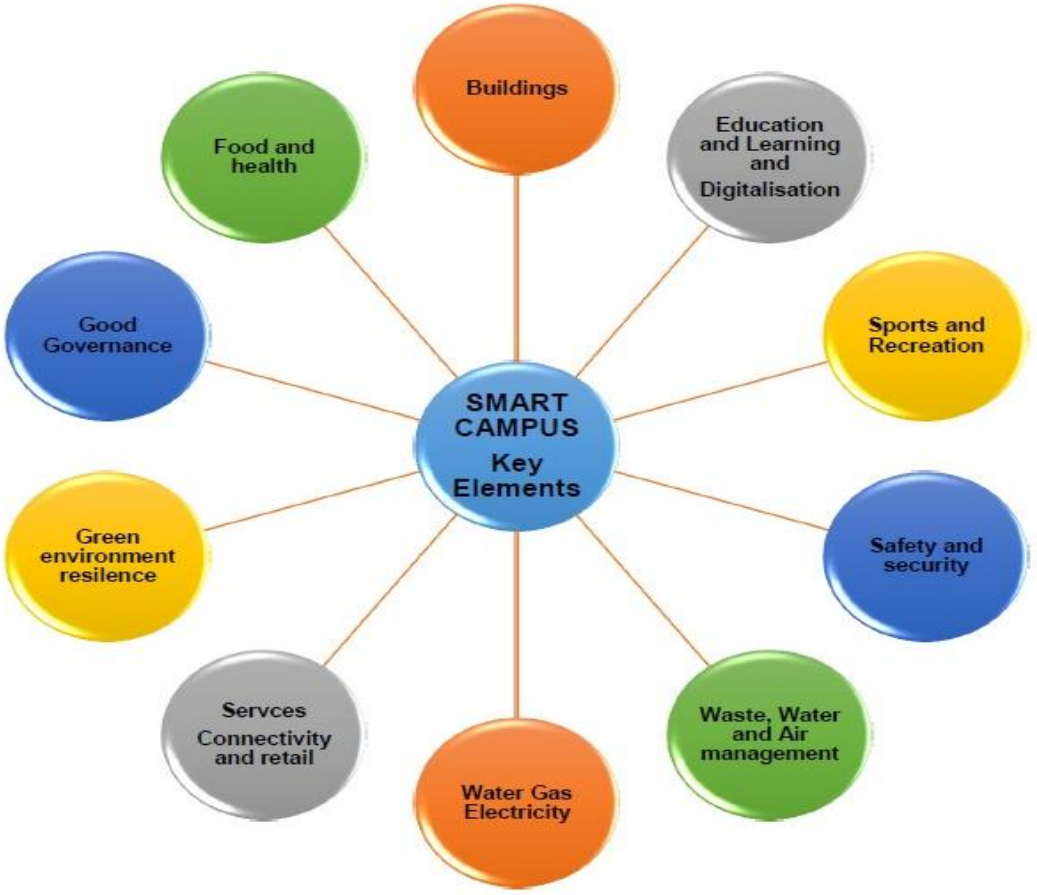
JSSAHER Social Responsibility Statement & Vision" to provide sustainable, eco-friendly smart campus. The "Food & Supplies Policy" is related to procurement, storage and maintenance of food, which is a part of "Smart Campus Policy". This policy provides provisions through which food to be procurement, stored, maintained and delivered to all the constituent colleges and departments of JSSAHER. JSSAHER and its constituent colleges and departments are responsible in working with suppliers, contractors and partners to minimize environmental effects related to services and supports local suppliers and that all procurements represent value for money. All stakeholders shall assist JSSAHER in meeting the sustainable food & supply policy. The policy applies to all aspects of sustainable food, including procurement, provision preparation, waste management, education, awareness and services. The Policy is also approved by the Registrar and shall be reviewed annually by Deputy Registrar and shall ensure that continued progress is being made. The JSSAHER adopted a committee that advices on the sustainability agenda affecting food procurement and provision. JSSAHER also aims to increase the procurement and consumption of organic food, focusing on the health, well-being and environmental benefits. Food that is being prepared in both boys and girls hostel was served as by the quality standards prescribed by Tamil Nadu Govt. India.



GLANCE AT OUR EFFORTS:

- Abiding by JSS AHER Green policy Ensuring greenery in the college and hospital campus
- Energy conservation measures
- Kitchen garden in the campus
- Oxygen plant installation
- Scientific disposal of biomedical waste from all health centres
- Regular training of health care workers and students on biomedical waste management





GOAL 12. ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

- **Abiding by JSS AHER Green policy**
- **Ensuring greenery in the college and hospital campus**
- **Energy conservation measures**
- **Kitchen garden in the campus**
- **Oxygen plant installation**
- **Electric Vehicle**
- **Scientific disposal of biomedical waste from all health centres. Regular training of health care workers and students on biomedical waste management**

ENERGY CONSERVATION & RECYCLING POLICY OF JSSAHER

Introduction

JSS Academy of Higher Education & Research (JSSAHER) is conscious of its responsibility and role immaterialising its green policy using renewable energy, management of its water resources, and disposal of waste.

Purpose

In order to minimize energy usage, improve the efficiency of all energy/ resources (natural resources, water, electricity) consuming systems and equipment, and improve the environment in all facilities, JSS Academy of Higher Education & Research has adopted an energy /resources conservation and recycling policy.

Definitions

- Energy conservation: Energy conservation is a practice of decreasing the quantity of energy used and achieved through efficient energy use.
- Recycle: Recycle is a process of collecting and reprocessing materials that would typically be considered waste.

Policy

Conservation of energy and natural resources and recycling process is an integral part of JSS Academy of Higher Education & Research (JSSAHER) facilities' design and usage. The JSSAHER employs a variety of energy conservation, recycling, and other techniques to lessen the consumption of resources and achieve the lowest feasible life cycle costs. However, occupant health, safety, comfort, and program requirements shall always be the primary concerns. Energy conservation measures will be achieved by using the most cost-effective, energy-efficient approach with consideration given for flexibility of use and future remodelling convenience. Recycling efforts are encouraged at the Institution/department level.

Responsibilities

- All faculty, staff, students, design consultants, and construction contractors must observe energy and resource conservation measures employed by the campus.
- The Campus Facilities Maintenance & Management Authority- Deputy Registrar shall be the principal coordinator of all design disciplines, which includes responsibility for the implementation of this policy.
- Constituent Colleges & Departments shall be responsible for internal energy conservation, recycling efforts.

Related Policies

The energy conservation and recycling policy of JSS Academy of Higher Education &Research (JSSAHER) supports:

- Smart Campus Policy of JSSAHER
- The Swachh Bharat Mission (Urban) guidelines- Government of India.
- National conservation strategy and policy statement on environment and development Government of India.

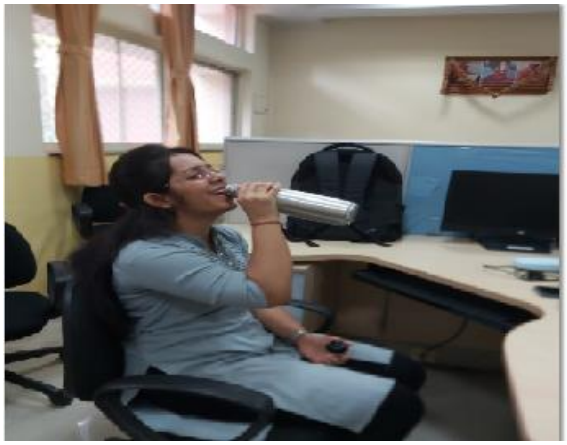
GREEN CAMPUS : ENSURING GREENERY IN THE COLLEGE AND HOSPITAL CAMPUS

MINIMUM USE OF [PLASTIC IN CAMPUS- AVOIDING PLASTIC BOTTLES

Practicing use of minimum reagents and chemicals during practical classes to avoid pollution.

Institution has taken major step and creating awareness among the students and faculties to adopted plastic free zone and has raised an alarm urging us to eradicate plastic usage at least within our campus. Institution has stopped using carry bags during seminar/conference and cloth/ paper bags are used. Students are advised and instructed to use paper/jute bag/cloth bag to carry the items/eatables purchased from outside. Institution has stopped using plastic water bottles during any college functions and same has been replaced by reusable glass bottles.

Hostel inmates are strictly instructed not to use plastic plates and to use stainless steel plates and silver bottles to make hostel free from the use of Plastic plates, cups & bottles and same has been practiced in the hostels.



All students and faculties are stressed the plastic-free lifestyle to the maximum extent possible and made research scholars/staff to make e-poster presentation during the seminar/conference held in the institution.


J.S.S. DENTAL COLL


J.S.S. MEDICAL COL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JSS MEDICAL INSTITUTIONS MYSORE
STRICTLY PROHIBITED
INSIDE CAMPUS :
SMOKING
DRUGS NARCOTIC & ADDICTIVE
ALCOHOL
NON VEG FOOD
GREEN CAMPUS
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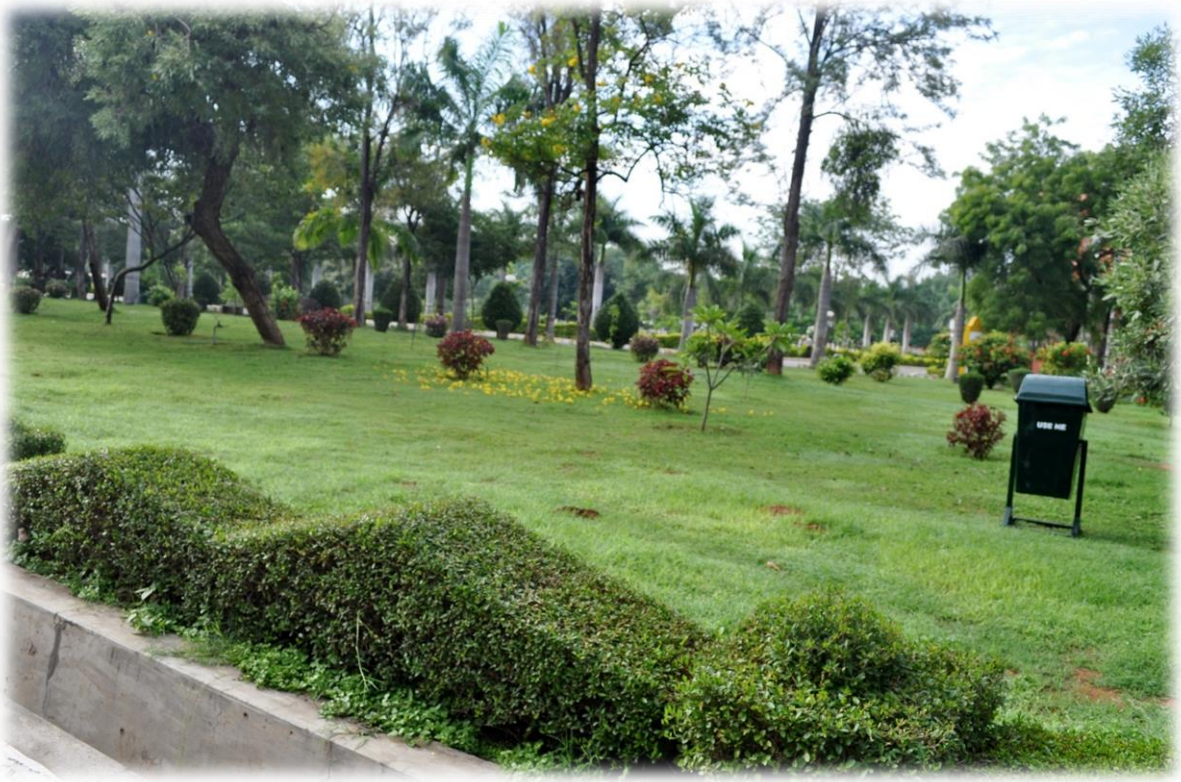


BLOCK-A


JSS HOSPITAL

ENERGY CONSERVATION MEASURES

Light Bulb Replacement

It is estimated that replacing traditional incandescent bulbs with CFLs/LED can cut lighting costs by up to 75%. JSSAHER, Constituent Colleges & Departments shall exchange such traditional incandescent bulbs across campus with CFLs/LED in a phased manner. Thus 75 % of the bulbs shall be changed with CFLs/LEDs by 2017.

- Sticker Reminders as part of their 'Energy Awareness Campaign' shall be placed on switch boards to remind everyone to conserve energy by turning off the lights.
- Small pamphlets emphasizing the importance of energy saving shall be prepared and circulated to all the staff and students of the college.
- Solar water heaters installed in colleges and hostels and especially for cooking, solar energy is utilized in the hostels and in guest houses. Step shall be taken to replace use of LPG completely with solar energy by 2020.

Water conservation

- Awareness program shall be held in campus once in 3 months for Sensitizing the staff and students
- The students in hostels shall be sensitized about water conservation in their orientation meetings.
- Printed stickers / labels with the slogan 'Save Water' to be fixed in strategic places of the college and hostels.
- Reducing car washing and the vehicles on the campus shall be washed based on the real needs rather than regular washing.
- The gardens shall be irrigated only with sprinklers and drip irrigation systems to save the wastage of water in plantations.
- All the existing flushes in the toilets to be changed into duel flush system in a phased manner.
- Sticker Reminders as part of the 'Energy Awareness Campaign' shall be placed near taps to remind everyone to conserve water by reducing wastage and closing the tap.

Recycle

- Green wastes shall be composted and reused as composts manure.
- All the waste bins to be replaced with duel bins with tag and pictorial signs "biodegradable waste" & nondegradable waste".
- The biowaste disposal shall be only through Government approved disposal service contracts.

Rainwater harvest

To meet the needs and sustainable management of fresh water, the rainwater harvesting and utilisation systems have been established in all the campuses of the JSSAHER to aid towards the greater objectives of water management and conservation and increasing recharge of groundwater by capturing and storing rainwater, rainwater harvesting from rooftop run-offs and natural waterbodies and the community development. The below-mentioned models are

established in the various buildings based on the size of the building and the extent and topography of the land.

The systems include –

- Simple roof water collection systems - Most of the rooftop rainwater harvesting has been completed by constructing five water storage structures with a storage capacity of 1000 m3.
- Land surface catchments – a simple way of collecting rainwater by retaining the flows(Including flood flows) of small creeks and streams in small storage reservoirs (on surface or underground) created by low-cost dams
- Collection of storm water – The surface runoff collected in stormwater ponds/reservoirs issubject to a wide variety of contaminants and every effort is made to keep these catchments clean
- JSSAHER and the constituent colleges shall continue to establish a combination of the above techniques to have meet the groundwater needs.

Response of JSSAHER towards conservation of energy:

The staff and students of JSSAHER shall be aware of the following response of JSSAHER towards conservation of energy to support its activities:

- Green Policy to be strictly followed in all its campuses
- Maintenance of clean, green and smart campus – waste segregation and planned disposal of waste through authorized agencies only
- Disposal of biomedical waste, Chemicals, and e-waste as per the norms of the Government
- Pollution control Board
- No Smoking campuses
- Energy conservation strategies – use of CFL/LED lights
- Solar heaters and Air source heat
- Pumps in the hostels
- Plastic-free campuses
- Conservation of water resources - Rainwater harvesting and wastewater treatment
- Reducing paper communication
- Organizing Swachh Bharat Abhiyan and creates awareness and consciousness amongst students.
- Including a subject “Environmental Sciences” in all courses
- Organizing Environment Day and Water Day.
- Preserving traditional knowledge and herbal medicine. Established medicinal plants garden and promotes eco-friendly cultivation practices by organizing medicinal plants exhibition.

Solar plants for heating water and for electricity

Kitchen garden in the hostel campus

Testimonial from the Hostel Worker

We work in students hostel of JSS Medical College. We come from rural background. We are very happy to grow and maintain the kitchen garden. We do not use any chemicals for growing vegetables or fruits. We receive enormous support from the administration for our work. We feel happy and contented when we harvest vegetables and cook food from it and serve to students.

Oxygen plant installation

JSS Hospital has installed and commissioned---

- TWO VSA Oxygen generator plants which produces 1000 Liters per Minute (500 Ltr/min x 2 nos) , This is an American product which is the latest, most efficient and cost effective model. Through this plant JSS Hospital, Mysore will be able to supply oxygen for additional 300 beds in the 'A' wing of the hospital. This has increased our oxygen bed numbers to 1060, with this plant we can generate and supply oxygen 24X7 without any interruption and also not be dependent on any other external source
- --We have increased our liquid medical oxygen capacity from 13 kilo liters to 26 kilo liters

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Electric vehicles

The electric vehicles are provided for the administrative staff at key positions in the JSS Hospital. It is a major initiative taken towards environmental protection and climate change by means of reducing air pollution and sustainable energy usage. The electric vehicles are utilized for patient transport inside the hospital for those who have difficulty in commuting.

Biomedical waste management in hospital

"CLEANLINESS IS GODLINESS NOT JUST NEXT TO GODLINESS"

Especially in hospitals, cleanliness can save lives. Every healthcare worker needs to understand this and also educate the visitors to the hospital with a lot of concern and patience.

We the staff of JSS hospital take this pledge of keeping our hospital very clean, meaning to say that we would like to keep the hospital germ free as far as possible.

This can be accomplished by following the international/national guidelines for Bio-Medical waste (BMW) management. This not only protects the patients, but health care workers and patient attendants too.

We are committed in giving safe and quality service to our patients as described by the founder of our hospital Jagadguru Sri Shivarathri Rajendra Mahaswamiji as "PATIENTS ARE OUR RELATIVES" (RogigaleNammaBandhugalu).

To keep the hospital safe and germfree, we also need the cooperation of patients and attendants.

We consider our hospital as a place of worship because we hear more prayers in the hospital for the good health of the patients than what we hear in temple/churches/mosques etc.

It's a process is developed by the hospital for safe handling and disposal of infectious and hazardous materials.

PURPOSE

- To minimize the health and equipment hazard in any related process
- To provide a safe and healthy environment for staff, patient and visitors

SCOPE

• The procedure for collection, segregation, treatment and disposal of biomedical waste generated during routine work in wards, OPDs, OT's, laboratories and other places where biomedical waste is generated.

RESPONSIBILITY

• Safety Committee, Quality Assurance Team, Bio Medical Waste Management Department, Laboratory, Clinical and Nonclinical staff.

• Document of BMW management approval from state Pollution control available with management

BIOMEDICAL WASTE MANAGEMENT

• Biomedical Waste management HIC-8b

• The SOP has been based on the policy direction issued in Gazette of India notification of 2018 Environment Protection Act guidelines

• All wards and departments will follow the under mentioned instructions meticulously

• Heads of departments and hierarchy of wards will be legally and morally responsible for effective functioning of health care waste management system at JSS Hospital.

• HIC members during rounds ensure appropriate disposal of BMW. If any deviation from the protocol is noticed, photographs are clicked and discussed with the concerned personnel to take necessary corrective measures.

Segregation, containment and packing of hospital waste in wards and departments HIC-8c. The waste should be segregated at source, all health care personnel – doctors, nurses, interns medical and nursing and paramedical students, lab personnel, helper staff, patients, attendants of patients are responsible for this. Clinical and nursing staff apart from meticulous exertion needs to oversee proper operation.

Waste collection is done in each ward / department in colour coded labelled bins of capacity 20 to 35 litres of each category and placed at the points of generation in respective wards/departments at accessible, user friendly and safe location.

Sharps will be collected in white puncture proof containers in each department / ward. Sharps should be decontaminated with 1% sodium hypochlorite solution after disfiguring the same, the hypochlorite solution should be changed every 24 hours. Once 2/3rd full the container should be dispatched for disposal.

Intact glassware will be collected in the cardboard boxes lined with blue boxes and can be handed over to the common treatment facilities.

The waste collected by housekeeping staff is stored in colour coded rooms situated in the back yard of the hospital.

The waste is transported to Shree consultancy in closed vans within stipulated time limits in a secure manner.

HIC-8d:

STAFF SAFETY CONSIDERATIONS:

To ensure the safety of personnel involved in Bio-medical waste treatment and disposal, we follow certain policies and guidelines.

1. There are dedicated trolleys for transporting waste within the hospital.
2. All workers involved in this work are aware of the hazardous nature of this work.

3. The workers are provided with gumboots, rubber aprons, caps, masks and thick rubber gloves.
4. All workers are immunized against Hepatitis B.

TRAINING

1. JSSH hospital has a well-designed awareness and training program for all categories of workers involved in Bio-medical waste disposal and management.
2. Regular pre induction training shall be conducted for appropriate categories of staff before joining to the concerned department.
3. We have charts displayed at strategic points in all patient care areas depicting our Bio-medical waste management policy.
4. We have frequent workshops and training programs to promote awareness of our Bio-medical waste management policy.

HIC-9a:

HIC-9a: The management provides manpower, money and materials to carry out Infection control programmes. Regularly classes are conducted by ICNs and members of HIC committee to all the staff of the Hospital. Induction programme for newcomers includes sessions on HIC

HIC-9b: BUDGET: The organization earmarks an annual budget for Infection control programme. Based on the scope of HIC activities and the previous years' experience, this budget is allocated.

HIC-9c & d: TRAINING: Organization provides induction training and In-service training sessions for all staff in regular sessions.

For doctors, medical education unit conducts induction programme with HIC as one of the topics.

For nurses and other para medical staff, training is conducted by ICNs and HIC members.

All the policies and protocols defined and approved by the HIC committee is being taught repeatedly and any change in the protocol also is immediately informed to all the concerned staff. Pop up messages on HIS are flashed to enforce the new changes into action.

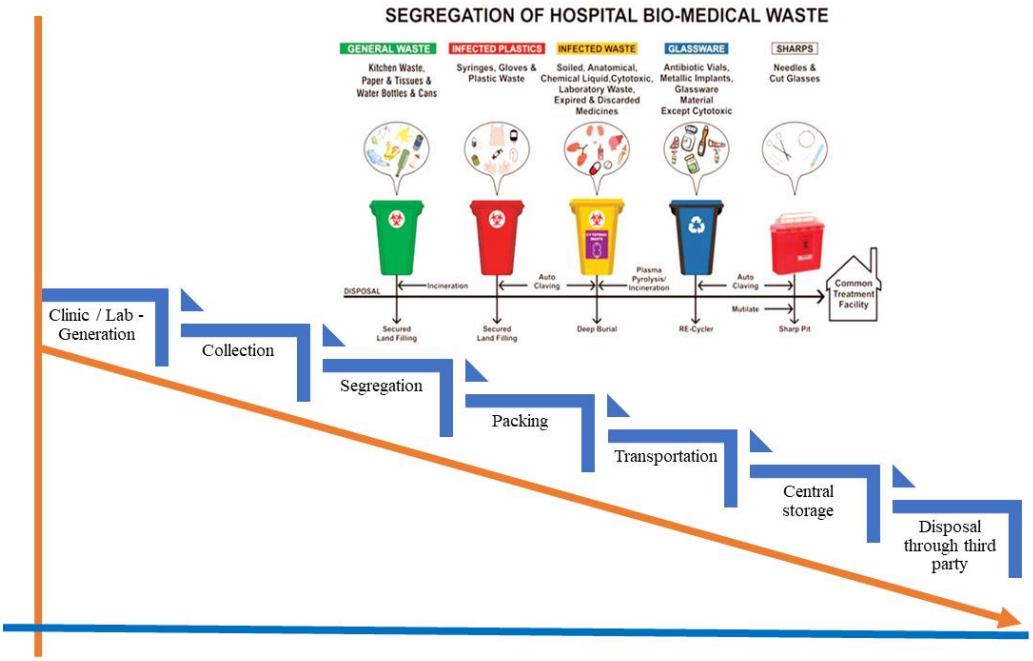
BIOMEDICAL WASTE MANAGEMENT IN COLLEGE & HOSPITAL

Ensuring compliance with all animal waste legislation requirements, including the duty of care, planning for future legal changes, and mitigating the effects of those changes and to promote holistic approach of waste management in the campus, ensure the safe handling and storage of wastes, promote environmental awareness in order to increase and encourage waste minimisation, reuse and recycling. Institution/ University has policies for animal waste disposal, When providing its waste management services, the University will adhere to the "best practical environmental alternative" standards. The University will utilise a "waste hierarchy strategy," which priorities waste reduction, reuse, recycling, and product recovery over landfill disposal.

BIOMEDICAL WASTE SEGREGATION

Biomedical waste generated from the hospital and laboratories are segregated at the point of generation as per the colour coding stipulated under Schedule I of BMWM Rules, 2016.

- Personnel Protective Equipment are provided to the bio-medical waste handling staff.
- Waste are segregated at the point of generation of source and not in later stages. “Point of Generation” means the location where wastes initially generate, accumulate and is under the control of doctor / nursing staff / lab etc. who is providing treatment to the patient / animals and in the process generating bio-medical waste.
- Posters / placards for bio-medical waste segregation are installed at the point of generation.
- Adequate numbers of colour coded bins / containers or bags are available at the point of generation of bio-medical waste.



BIO MEDICAL WASTE COLLECTION

Time of Collection

- Bio-medical waste is collected on daily basis from each ward of the hospital / lab at a fixed time. There can be multiple collections during the day. All the biomedical waste should collected, segregated, packed and sent to central biomedical waste storage every evening before 4.30 pm
- Clinics and labs ensure collection, transportation and disposal of bio-medical waste within 48 hours.
- Bio-medical waste bags, sharps and containers are filled to no more than three quarters full. Once this level is reached, the bags are tied or sealed with plastic tags.
- Replacement bags or containers are available at each waste-collection location so that full ones can immediately be replaced.
- All the bags and containers to be transported to CBWTF are labeled with following details:
    - Date of Generation
    - Type of waste category
    - Dept name
    - Contact Person Name and Phone Number

Interim Storage

Interim storage of biomedical waste is discouraged in the clinics / labs

- If waste is needed to be stored on interim basis in the departments it is stored in the dirty utility/sections.
- In absence of dirty utilities/ sections such BMW must be stored in designated place away
- No waste is in patient care area / working area and procedure areas

General waste should not be collected at the same time or in the same trolley in which bio-medical waste is collected.

Color codes for Biomedical waste collection and Packing

				
▪ Human and animal anatomical wastes ▪ Soiled wastes, ▪ Discarded or expired medicines ▪ Chemical wastes, ▪ Blood and body fluids ▪ Microbiology / Biotechnology wastes	▪ Contaminated waste (recyclable)	▪ Sharps including metals ▪ Needles ▪ Scalpels ▪ Blades	▪ Broken and contaminated glass including vials and ampoules ▪ Metallic body implants	▪ Food items ▪ Papers / paper plates, ▪ Water bottles, etc

BIOHAZARD

SOCIETY FOR BIO-MEDICAL WASTE MANAGEMENT (REGD.)
&IMA - NILGIRIS BRANCH
REGD NO. 72/2010

No. 1975 Date :....01.07.20....

Received with thanks from Dr./ Messers....ISS College of pharmacy.....

a sum of Rupees.....Four teen Thousand Only.....

towards Membership fee / Subscription / donation / by cash / *Cheque / DD

₹ 14,000 /-

For SOCIETY FOR BIO - MEDICAL WASTE MANAGEMENT

Hon. Treasurer / Hon Secretary

Bio-medical waste management bill given by the Nilgiris local authority

Our college is committed to protecting the environment by minimizing the use of plastic in the campus. Within the context of Smart Campus Policy, JSSAHER is working on minimizing the use of plastics, to reducing the environmental impact of waste plastics. The Swachh Bharat Mission (Urban) guidelines, Government of India. National conservation strategy and policy statement on environment and development, Government of India. Measure and audit the use of plastics and set targets for reduction. Where possible, to use only those plastic products that can be easily reused or recycled. Encourage innovative recycling opportunities for the plastic waste in buildings, cafes and daily operations. Our college Work in partnership with research bodies, universities, suppliers, and other stakeholders to meet these policy objectives. Plastic Hazard Awareness program as a part outreach activity. The local bodies also need to ensure that the city solid waste is not get mixed with other streams of wastes like bio-medical waste, hazardous waste, C&D waste, E-Waste, etc.; and manage them according to their respective rules.

- JSS Dental College and Hospital gives utmost importance to controlling and prevention of infection in patients, visitors, healthcare providers and community by adopting appropriate safety measures.
- JSS Dental College and Hospital has an organized Infection Control Committee and Infection Control Team which formulates policies and measures aimed at reducing and eliminating infection risks to patients, housekeeping staff, visitors and to the environment.
- JSS Dental College and Hospital has an infection control and elimination programs and policies that are well documented.
- Infection control and elimination programs are performed regularly with yearly upgradations.
- JSS Dental College and Hospital has a well-coordinated Infection Control Committee that supervises all infection control and elimination programs.

<u>Responsibilities of Infection Control Committee & Infection Control team</u>

Aim of Infection Control Committee (ICC)

- Aim of Infection Control Committee of JSS Dental College and Hospital is to adopt policies and practices that help to prevent and eliminate hospital related infections in patients, health care providers, visitors and the environment.

Duties of Infection Control team:

- Infection Control Team coordinates to formulate infection control policies and practices for control and elimination of infection.
- ITC introduce standard operating procedures that aim toward infection control.
- The team organizes training and appraisal of all members of the staff regularly regarding the policies and protocols for infection control and elimination.
- The team streamlines the documentation of the outcome of policies and practices.
- ICT performs the periodical auditing of the infection control practices outcome.
- Team formulates appropriate protocols for biomedical waste management.
- The team is responsible for periodic monitoring and documentation of water supply, air supply and other engineering works.

Definition

Biomedical waste means any waste which is generated during diagnosis, treatment or immunization of human being or animals or in the research activities pertaining there to or in the production of testing of biologicals

Purpose: to ensure safe and secure biomedical waste disposal or handling in JSSDCH.

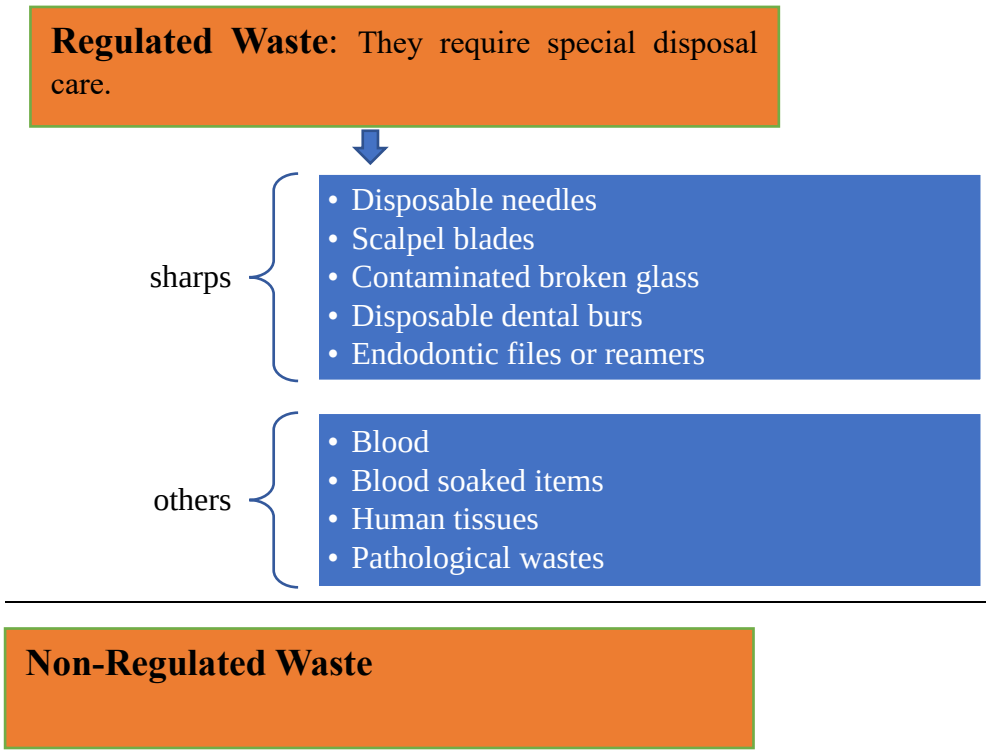
JSSDCH has obtained consent from pollution control board to operate.

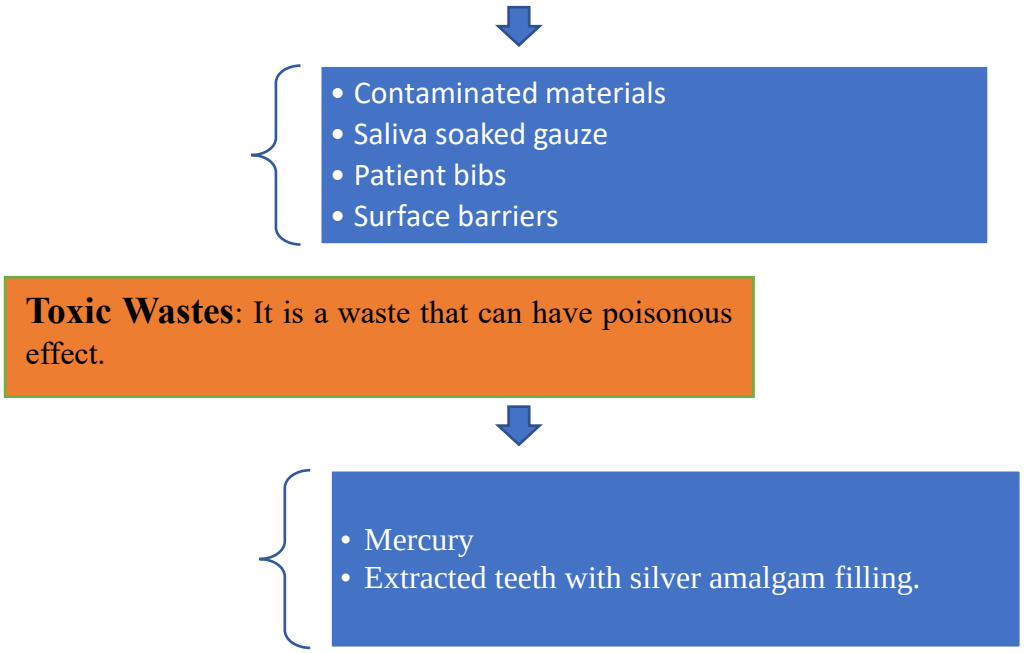
JSSDCH has outsourced biomedical waste collection and disposal to Shree consultancy.

JSSDCH adheres to policies in manual for waste handling and management inside the working area and outside till it is collected

Classification of waste

According to Environmental Protection Agency, EPA





- All waste containers that hold potentially infectious materials (regulated or non-regulated) must be labeled with biohazard symbol. JSSDCH outsources BMW disposal to Shree consultancy.
- As per the guidelines of Shree consultancy the waste generated should be segregated into different colored containers. Colored containers are provided to each department and each color is designated to collect specific type of waste as mentioned below.

Non chlorinated yellow bags (Incinerable waste only)	Non chlorinated red bags (plastic waste only)	Non chlorinated blue bags (glasswares and metals only):	Non chlorinated white transluscent bags or bin with disinfectant (only sharps):
• Human tissue • Placenta • Infected cotton and dressing • Soiled plaster casts • Body parts • Blood bags • Cotton swabs	• Catheter • IV sets • Gloves • Tubings • Syringe without needles	• Broken bottles • Discarded or contaminated glass vials and ampules.	• Glass pieces slides • Needles, lancets • Syringe with fixed needles • Scalpel blades • Overused and underused sharps

Black colored bags (not to be sent to BMW management facility)
• Food wastes • Tender coconut • Leaves wrapping • Office paper waste • Dustings • Paper and plastic cups • Syringe wrapper • Vegetables • Fruits or fruit peels etc.

- All the colored bags or bins should be closed tightly in order to prevent spillage or contamination.
- All the waste should be collected in central waste collection centre from where it will be collected by BMW management agency
- All the staff handling the biomedical waste will be provided with PPE which should be used mandatorily while handling BMW.
- Syringe or needle burner must be used for syringe needles and then the syringe must be disposed into the designated colored bin.
- Radiographic fixer and developer are considered hazardous wastes. It can be handles on site or offsite treatment. JSSDCH manages them by offsite management, where it is outsourced to a company.

Segregation

Proper segregation of BMW:

- BMW has been segregated into different color coded containers as per the guidelines
- provided by Shree consultancy.
- Waste from the working or patient care area is removed once a day or more if required.
- The containers of waste are closed tightly and stored in central waste collection bay from where it is collected and carried out of the campus.
- Handling of mercury, extracted teeth and sharps

Precautions When Working with Mercury.

- Work in a well-ventilated space.
- Avoid direct skin contact with mercury.
- Avoid inhaling mercury vapour.
- Store mercury in unbreakable, tightly sealed containers away from heat.
- When preparing amalgam for restorations, use preloaded capsules (this avoids exposure while measuring mercury).
- When mixing amalgam, always close the cover before starting the amalgamator.
- Reassemble amalgam capsules immediately after dispensing the amalgam mass (the used amalgam capsule is highly contaminated with mercury and is a significant source of mercury vapour if left open).
- Left over scrap amalgam (that has been retrieved from dental unit traps) is disinfected in a solution of bleach and water. Then it is placed in the container with other scrap amalgam. Never rinse a dental unit trap in the sink. (waste water plantsare not equipped to removed mercury from waste, and the mercury will enter the environment via the water ways)
- Clean spills using appropriate procedure and equipment. Do not use a household vacuum cleaner or the high volume evacuator (dangerous fumes from the mercury can be released into the air)
- Place the contaminated disposable materials into polyethylene bags and seal.
- Dispose according to regulations specific to your area.

CDC guidelines for handling extracted teeth

Dispose of extracted teeth as regulated waste unless returned to the patient.

Do not dispose of expose teeth that contain amalgam as regulated medical waste intended for incineration.

Heat-Sterilize teeth that do not contain amalgam before they are used for educational purposes

Handling sharps Safe injection practices

Do not harm the recipient.

Do not expose the provider to any avoidable risk.

Do not generate waste that is dangerous for other people. Eg: IV, IM, Lancet procedures etc.

Purpose:

- Promotes, implementation of practices associated with ,
- Intradermal, subcutaneous, IM needles
- IV infusions and injections
- Lancet procedures

Guidelines on Use of Injection Devices Syringes:

- Preferably use new devices for each procedure.
- Use disposable syringes.
- Before use inspect packing, whether there is breach in protective barrier.

- If package is punctured, torn, damaged, discard and use new one. Always check for
- expiry date. Medication
- Do not use single loaded syringe for medication administration to several patients.
- Always follow single patient, single needle, single syringe policy.
- Avoid changing needle in order to reuse syringe.
- Avoid using same mixing syringe to reconstitute several vials.
- Avoid combining left over medication for later use.
- Preferably use single dose vial for each patient in order to avoid contamination between patients.
- Open only one vial of particular medication at a time in each patient area.
- Do not store multidose vial in open ward where they may be contaminated.
- If sterility of vial is compromised discard immediately.
- Practical Guidelines for Injection Administration
- Always check the prescription for medication/drug chart and corresponding patient's name.
- Check for the dosage prescribed.
- Check for the expiry date.
- Perform hand hygiene procedures.
- Use 60-70% alcohol swab to clean the top of vial.
- Always open the syringe pack Infront of patient to reassure them the syringe and needle have not been used previously.
- Use sterile syringe or needle to withdraw medications from ampule.

Injection site preparation

- Use alcohol based (60-70%) solution or a single use swab or cotton wool ball to disinfect the site of injection.
- Wipe the area from centre of injection site outward without going over the same.
- Solution should be applied for 30 seconds and allow it to dry completely.
- Delay in Administration
- If medication cannot be given immediately for some reasons it should be capped using
- scoop technique.
- It should be store safe dry place, it should be labelled.

Precautions

- Needle should not touch any contaminated surfaces.
- Syringe should not be reused even if needle is changed.
- Do not use same needle/syringe to enter multiple multidose vials.
- Do not use syringe/needle to re-enter the vial once used on a patient, even if it is for same patient or other.

Guidelines to Prevent Sharp Injuries

- Avoid bending/breaking, manipulating or manually remove the needle before disposal.
- Use scoop technique when needle has to be recapped.
- Sharps, glass ampules should be discarded immediately after use into a sharp container which is leak/puncture proof.
- Sharp container should be sealed and replaced when it is three quarters full.
  NOTE: In the event of sharp injuries immediately report to the concern IC team person and follow the post exposure protocol.

Storage and transport

- JSSDCH has been designated as central waste collection bay where all the BMW from different departments are transported via closed containers or bags in safe and secure manner.
- Shree consultancy people collect the BMW in a closed vehicle without contaminating the campus.
- The quantity of waste and timings of BMW collection is all documented on day-to-day basis
- Shree consultancy is paid fee for collection of BMWS. The details of which are maintained.
- Personal protective equipment's are used mandatorily for handling BMW by all staff in accordance with manual to prevent cross infection or other accidental injuries.
- JSSDCH has equipment for disposing used syringes, blades, suture needles etc..
- Handling of sharps are done using appropriate PPE and in accordance with JSSDCH ICM.

Training of all concerned staffs

- JSSDCH ICC recommends the required resources to carry out infection control
- programme.
- JSSDCH Management ensures availability of resources to carry out infection programme.
- Management decides the budget as per requirement.
- For efficient functioning of the policies and programmes all the staff concern with IC will be given training periodically.
- New staff will be given induction programme before joining departments.
- Charts giving information regarding post exposure protocol and prophylaxis will be displayed in all working areas, documentation and follow up of any such incident will be done.

PEP protocol, prophylaxis and immunization

- Requirements for employee medical records:
- Employee's name and social security number
- Proof of employee's hepatitis B virus (HBV) vaccination or signed refusal
- Circumstances of any exposure incident (such as needle stick) involving the employee and the name of the source individual (eg: a patient whose blood or bodily fluid was involved in the incident)
- A copy of the postexposure follow up procedures for any injuries sustained by that employee
- These records must be retained by the employer for the duration of the employment plus 30 years
- Follow up measures for exposed workers:
- The following services must be offered to the employee without charge:
- Confidential medical counseling
- Human immunodeficiency virus (HIV) test series immediately and at 6 weeks, 12 weeks and 6 months
- Hepatitis B virus (HBV) immune globulin (if no prior HBV vaccination)
- Tetanus booster
- Documentation of incident on appropriate Occupational Safety and Health Administration (OSHA) form

QUESTIONS ADDRESSED ON SUPPORTING SDG 12

JSSAHER HAS POLICY AND MAINTAINS GUIDELINES POLICY ON ETHICAL SOURCING OF FOOD AND SUPPLIES SUPPORTING SDG 12

JSS Academy of Higher Education & Research exhibits a commitment to sustainable development, particularly in line with Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. By establishing policies and maintaining guidelines on the ethical sourcing of food and supplies and contributes to advancing environmentally friendly and socially responsible practices and commitment aligns with SDG 12:

1. **Ethical Sourcing (SDG 12):** The policy on ethical sourcing of food and supplies reflects a commitment to responsible consumption and production, a core objective of SDG 12. This entails ensuring that the sourcing and production of goods and services are conducted sustainably and ethically, minimizing negative environmental and social impacts.
2. **Reducing Environmental Impact:** Ethical sourcing policies typically involve considerations such as sustainable agricultural practices, waste reduction, and environmentally friendly supply chain management. By adhering to such policies, JSSAHER actively contributes to minimizing its environmental footprint, aligning with SDG 12's goal of sustainable and efficient resource use.
3. **Social Responsibility:** Ethical sourcing extends beyond environmental concerns to encompass social aspects. It involves fair labor practices, human rights considerations, and community welfare. By maintaining guidelines on ethical sourcing, JSSAHER supports social responsibility, aligning with SDG 12's emphasis on promoting inclusive and sustainable development.
4. **Waste Reduction and Recycling (SDG 12):** Ethical sourcing often includes measures to reduce waste generation and promote recycling. This aligns with SDG 12's focus on responsible production and consumption patterns, aiming to minimize waste and maximize resource efficiency.
5. **Promoting Best Practices:** By establishing and maintaining guidelines for ethical sourcing, JSSAHER sets an example for best practices in consumption and production. This not only aligns with SDG 12 but also contributes to the broader global effort to transition towards sustainable and responsible economic practices.

In summary, JSSAHER's commitment to ethical sourcing through the implementation of policies and guidelines aligns directly with SDG 12. By promoting responsible consumption and production, the institution contributes to building a more sustainable and equitable future, addressing key challenges related to resource use, environmental impact, and social responsibility.

JSSAHER HAS POLICY AND MAINTAINS POLICY, PROCESS OR PRACTICE ON WASTE DISPOSAL - COVERING HAZARDOUS MATERIALS AND SUPPLIES SUPPORTING SDG 12

JSS Academy of Higher Education & Research (JSSAHER) demonstrates a commitment to Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production by having policies and maintaining practices related to waste disposal, especially for hazardous materials and supplies. Here's how these policies and practices align with SDG 12:

1. **Responsible Production and Consumption (SDG 12):** JSSAHER's policies on waste disposal, particularly for hazardous materials and supplies, contribute directly to SDG 12's objective of ensuring responsible production and consumption patterns. By managing waste responsibly, the institution reduces its environmental impact and promotes sustainable practices.

2. **Hazardous Material Management:** The specific focus on hazardous materials in waste disposal policies indicates a commitment to handling potentially harmful substances in an environmentally sound and safe manner. This aligns with SDG 12's aim to minimize the adverse impacts of chemicals and waste on human health and the environment.

3. **Waste Reduction:** Effective waste disposal policies often involve strategies for waste reduction, reuse, and recycling. By implementing such practices, JSSAHER works towards minimizing the overall volume of waste generated, contributing to SDG 12's target of reducing waste generation.

4. **Environmental Protection:** Policies and practices related to hazardous waste disposal demonstrate a commitment to protecting the environment. Proper management of hazardous materials prevents soil and water contamination, aligning with SDG 12's focus on minimizing the adverse effects of waste on ecosystems.

5. **Legal Compliance:** The institution's adherence to waste disposal policies reflects a commitment to compliance with environmental regulations and standards. This contributes to SDG 12's emphasis on promoting sustainable practices through legal frameworks.

6. **Resource Efficiency:** Responsible waste disposal practices, including the appropriate handling of hazardous materials, contribute to resource efficiency. By managing resources more sustainably, JSSAHER aligns with SDG 12's goal of optimizing resource use.

In summary, JSSAHER's policies and practices on waste disposal, particularly for hazardous materials and supplies, support the principles of SDG 12. By focusing on responsible consumption and production, the institution actively contributes to global efforts aimed at fostering sustainable and environmentally conscious practices in higher education.

JSSAHER HAS POLICY ON WASTE DISPOSAL - TO MEASURE THE AMOUNT OF WASTE SENT TO LANDFILL AND RECYCLED SUPPORTING SDG 12

JSS Academy of Higher Education & Research (JSSAHER)'s policy on waste disposal, specifically measuring the amount of waste sent to landfill and recycled, aligns with Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. Here's how this policy supports the objectives of SDG 12:

1. **Waste Reduction and Recycling (SDG 12):** By implementing a policy to measure and monitor the amount of waste sent to landfill and recycled, JSSAHER is actively promoting responsible consumption and production. The focus on waste reduction and recycling directly contributes to achieving SDG 12's targets related to sustainable waste management.

2. **Resource Efficiency:** Measuring waste disposal practices allows JSSAHER to assess its resource efficiency. Tracking the amount of waste sent to landfill and the volume recycled emphasizes the institution's commitment to optimizing resource use, a key aspect of SDG 12.

3. **Environmental Impact Assessment:** Monitoring waste disposal aligns with SDG 12's aim to conduct environmental impact assessments. Understanding the environmental implications of waste management practices is crucial for promoting sustainability and minimizing negative impacts on ecosystems.

4. **Promoting Sustainable Practices:** The policy encourages sustainable waste management practices by actively measuring and analyzing disposal methods. This aligns with SDG 12's broader objective of promoting sustainable consumption and production patterns.

5. **Contribution to Circular Economy:** Emphasizing recycling in waste disposal practices aligns with the principles of a circular economy. The institution's commitment to recycling contributes to the sustainable use of resources and supports SDG 12's goal of fostering circular economic models.

6. **Transparency and Accountability:** By measuring and reporting on waste disposal metrics, JSSAHER demonstrates transparency and accountability in its sustainability efforts. This aligns with SDG 12's emphasis on providing clear and accurate information to stakeholders about consumption and production practices.

In summary, JSSAHER's waste disposal policy, particularly its focus on measuring the amount of waste sent to landfill and recycled, directly supports the principles of SDG 12. The institution's commitment to responsible consumption and production is reflected in its efforts to manage waste efficiently and promote environmentally sustainable practices.

JSSAHER HAS POLICIES AROUND USE MINIMISATION OF PLASTICS IN CAMPUS AND AROUND SUPPORTING SDG 12

JSS Academy of Higher Education & Research (JSSAHER)'s policies aimed at minimizing the use of plastics on campus align with Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. These policies contribute to the broader objective of sustainable resource management. Here's how they support SDG 12:

1. **Reduction of Plastic Waste (SDG 12):** Policies focused on minimizing the use of plastics directly contribute to SDG 12's target of reducing waste generation. By actively discouraging or regulating the use of plastics on campus, JSSAHER promotes responsible consumption and production practices.
2. **Environmental Impact:** The reduction of plastic use aligns with SDG 12's aim to minimize the environmental impact of consumption and production patterns. Plastics contribute to pollution and ecological harm, and by minimizing their use, JSSAHER addresses these environmental concerns.
3. **Promotion of Sustainable Alternatives:** Policies encouraging the minimization of plastics often involve promoting the use of sustainable alternatives. This aligns with SDG 12's goal of encouraging the adoption of environmentally friendly materials and practices in daily activities.
4. **Education and Awareness (SDG 4 and SDG 12):** Initiatives to minimize plastic use often involve educational campaigns to raise awareness among students and staff. This aligns not only with SDG 12 but also with SDG 4 (Quality Education), promoting awareness about sustainable consumption practices.
5. **Circular Economy Principles:** Policies around reducing plastic use support the principles of a circular economy by minimizing waste and encouraging the reuse and recycling of materials. This aligns with SDG 12's goal of transitioning towards sustainable and circular economic models.
6. **Community Engagement:** Efforts to minimize plastic use often involve engaging the campus community in sustainable practices. This aligns with SDG 12's emphasis on community participation and responsible citizenship in achieving sustainable development.

In summary, JSSAHER's policies on minimizing plastic use on campus are in line with SDG 12's objectives. By adopting these policies, the institution actively contributes to responsible consumption and production patterns, promoting environmental sustainability and fostering a commitment to reducing the ecological footprint associated with plastic waste.

JSSAHER HAS POLICIES AROUND USE MINIMISATION - OF DISPOSABLE ITEMS SUPPORTING SDG 12

JSS Academy of Higher Education & Research (JSSAHER)'s policies aimed at minimizing the use of disposable items align with Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. These policies contribute to sustainable resource management and the reduction of waste. Here's how these policies support SDG 12:

1. **Waste Reduction (SDG 12):** Policies focusing on minimizing the use of disposable items directly contribute to SDG 12's target of reducing waste generation. By actively discouraging or regulating the use of disposable items, JSSAHER promotes responsible consumption and production practices.
2. **Resource Efficiency:** The reduction of disposable items aligns with SDG 12's objective of optimizing resource use. Disposable items often contribute to a linear "take-make-dispose" model, and by minimizing their use, JSSAHER supports a more sustainable, circular approach to resource management.
3. **Promotion of Reusables:** Policies around minimizing disposable items often involve promoting the use of reusable alternatives. This aligns with SDG 12's goal of encouraging the adoption of sustainable practices that prioritize durability and longevity over single-use convenience.
4. **Environmental Impact:** The reduction of disposable items helps minimize the environmental impact associated with their production, use, and disposal. This aligns with SDG 12's aim to minimize the ecological footprint of consumption and production patterns.
5. **Community Engagement :** Efforts to minimize the use of disposable items often involve engaging the campus community in sustainable practices. This aligns with SDG 12's emphasis on community participation and responsible citizenship in achieving sustainable development.
6. **Circular Economy Principles:** Policies that discourage the use of disposable items support the principles of a circular economy by minimizing waste and encouraging the reuse of materials. This aligns with SDG 12's goal of transitioning towards sustainable and circular economic models.

In summary, JSSAHER's policies on minimizing the use of disposable items align with SDG 12's objectives. By adopting these policies, the institution actively contributes to responsible consumption and production patterns, promoting environmental sustainability, and fostering a commitment to reducing the impact associated with disposable waste.

JSSAHER HAS POLICIES EXTEND TO OUTSOURCED SERVICES AND THE SUPPLY CHAIN SUPPORTING SDG 12

JSS Academy of Higher Education & Research (JSSAHER) extending its policies to outsourced services and supply chains aligns with Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. This extension reflects a commitment to promoting sustainability not only within the institution but also throughout its broader operational sphere. Here's how this commitment supports SDG 12:

1. Supply Chain Sustainability : Including outsourced services and supply chains in policies aligns with SDG 12's objective of promoting sustainable practices across the entire lifecycle of products and services. This holistic approach aims to address environmental and social impacts associated with production and consumption.

2. Reducing Environmental Footprint: By extending policies to supply chains, JSSAHER acknowledges the environmental footprint of the products and services it consumes. This is in line with SDG 12's focus on reducing the environmental impact of consumption and production patterns.

3. Ethical Practices: Ensuring that outsourced services and supply chains adhere to ethical and sustainable practices contributes to SDG 12's goals of responsible consumption and production. This includes considerations for fair labor practices, environmental stewardship, and social responsibility.

4. Resource Efficiency: Policies extending to supply chains promote resource efficiency by encouraging suppliers to adopt sustainable production methods and reduce waste. This aligns with SDG 12's aim of optimizing resource use.

5. Transparency and Accountability: By holding outsourced services and supply chains to the same sustainability standards, JSSAHER contributes to SDG 12's emphasis on transparency and accountability in promoting responsible consumption and production.

6. Community and Stakeholder Engagement: Involving outsourced services and supply chain partners in sustainability initiatives fosters community and stakeholder engagement. This aligns with SDG 12's goal of encouraging inclusive decision-making and collaboration for sustainable development.

7. Circular Economy Principles: Extending policies to supply chains supports the principles of a circular economy by encouraging the reuse and recycling of materials. This aligns with SDG 12's aim of transitioning towards sustainable and circular economic models.

JSSAHER's extension of policies to outsourced services and supply chains demonstrates a comprehensive commitment to responsible consumption and production, as outlined in SDG 12. By influencing the broader operational context, the institution contributes to sustainable development goals and promotes ethical and environmentally friendly practices throughout its entire value chain.

JSS Academy of Higher Education & Research (JSSAHER) could extend policies to outsourced services and supply chains with examples:

1. Supplier Code of Conduct:
    - *Policy:* JSSAHER implements a Supplier Code of Conduct that outlines expectations for ethical and sustainable practices for all suppliers and service providers.
    - *Example:* The code includes requirements for suppliers to adhere to fair labor practices, environmental regulations, and social responsibility. It could specify that suppliers must not use child labor, should minimize waste generation, and adhere to health and safety standards.
2. Sustainable Procurement:
    - *Policy:* JSSAHER commits to sourcing products and services from suppliers with strong environmental and social sustainability practices.
    - *Example:* The institution prioritizes suppliers who have obtained recognized sustainability certifications or adhere to specific environmental standards. For instance, when procuring office supplies, preference is given to suppliers with eco-friendly and recyclable products.
3. Waste Reduction in Supply Chains:
    - *Policy:* JSSAHER encourages suppliers to implement waste reduction measures in their production processes.
    - *Example:* Suppliers are urged to minimize packaging, use recyclable materials, and adopt circular economy principles. This aligns with SDG 12 by reducing the overall environmental impact of the products and services consumed by the institution.
4. Energy Efficiency Requirements:
    - *Policy:* JSSAHER sets energy efficiency criteria for products and services in its supply chain.
    - *Example:* When outsourcing IT services or procuring electronic equipment, suppliers are required to meet energy efficiency standards. This contributes to SDG 12 by promoting responsible energy consumption and production.
5. Transparency and Reporting:
    - *Policy:* JSSAHER mandates suppliers to provide transparent reporting on their sustainability practices.

- *Example:* Suppliers are required to submit annual reports detailing their environmental impact, social initiatives, and adherence to ethical business practices. This transparency aligns with SDG 12's goal of promoting accountability.

6. Community Engagement and Local Sourcing:
    - *Policy:* JSSAHER encourages suppliers to engage with local communities and promote inclusive business practices.
    - *Example:* The institution prioritizes local suppliers who contribute to community development, providing employment opportunities and supporting local economies. This aligns with SDG 12's emphasis on inclusive and sustainable development.
7. Continuous Improvement:
    - *Policy:* JSSAHER establishes a framework for continuous improvement in the sustainability performance of its supply chain.
    - *Example:* Regular assessments and audits are conducted to evaluate suppliers' sustainability practices. Feedback is provided, and collaborative initiatives are undertaken to address areas that need improvement.

By implementing these policies and examples, JSSAHER not only contributes to SDG 12 but also plays a pivotal role in influencing its broader network of suppliers and service providers towards sustainable and responsible practices.

JSSAHER POLICIES EXTEND TO OUTSOURCED SUPPLIERS AND THE SUPPLY CHAIN - (SUPPLIERS OF EQUIPMENT, STATIONARY, BUILDING CONTRACTS) SUPPORTING SDG12

JSS Academy of Higher Education & Research (JSSAHER) has taken significant strides in aligning its operations with Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. One noteworthy facet of its sustainability strategy is the extension of policies to outsourced suppliers and the entire supply chain, covering equipment, stationary, and building contracts.

Key Components of JSSAHER's Sustainable Supply Chain Management:

1. Supplier Code of Conduct:
    - *Policy:* JSSAHER mandates all suppliers, including those providing equipment, stationary, and building contracts, to adhere to a comprehensive Supplier Code of Conduct.
    - *Implementation:* This code outlines ethical, social, and environmental standards that suppliers must meet, fostering responsible business practices. For instance, building contractors are encouraged to use sustainable construction materials, while stationary suppliers must offer eco-friendly products.
2. Sustainable Procurement Practices:
    - *Policy:* The institution commits to sourcing products and services through sustainable procurement practices.
    - *Implementation:* JSSAHER prioritizes suppliers with environmentally friendly products and services. For equipment, preference is given to suppliers who adhere to energy efficiency standards, contributing directly to SDG 12's objectives.
3. Waste Reduction Initiatives:
    - *Policy:* JSSAHER encourages suppliers to adopt waste reduction measures in their processes.
    - *Implementation:* Building contractors are urged to minimize construction waste through recycling initiatives. Stationary suppliers are required to provide products with minimal packaging, aligning with SDG 12's focus on reducing overall waste generation.
4. Energy Efficiency Standards:
    - *Policy:* The institution sets stringent energy efficiency criteria for equipment suppliers.

- *Implementation:* Suppliers of electronic equipment are expected to provide products that meet or exceed recognized energy efficiency standards. This practice supports responsible energy consumption, a key aspect of SDG 12.

5. Transparency and Reporting:
    - *Policy:* JSSAHER emphasizes transparency in suppliers' sustainability practices.
    - *Implementation:* Suppliers are required to submit regular reports detailing their social and environmental initiatives. This transparency aligns with SDG 12's emphasis on accountability and responsible business conduct.
6. Community Engagement and Local Sourcing:
    - *Policy:* JSSAHER encourages suppliers to engage with local communities and prioritize local sourcing.
    - *Implementation:* Building contracts may include clauses promoting the hiring of local labor, while stationary suppliers are encouraged to source materials locally. This commitment contributes to community development, supporting the inclusive goals of SDG 12.

JSSAHER's extension of policies to outsourced suppliers and the supply chain exemplifies a holistic commitment to responsible consumption and production. By actively engaging with its entire network of suppliers, including those providing equipment, stationary, and building contracts, JSSAHER is not only contributing to SDG 12 but also shaping a more sustainable and ethical future for higher education institutions. This comprehensive approach reflects the institution's dedication to being a responsible global citizen and a leader in sustainable practices.

JSSAHER's Sustainable Supply Chain Journey: A Closer Look at Responsible Practices Shaping SDG 12

In a pioneering move towards sustainability, JSS Academy of Higher Education & Research (JSSAHER) has proactively extended its policies to outsourced suppliers and the entire supply chain. This commitment spans various domains, including equipment, stationary, and building contracts, aligning with the principles of Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. Let's delve into specific examples illustrating how JSSAHER is translating these policies into impactful actions.

1. Sustainable Procurement Practices:

- *Policy:* JSSAHER commits to sourcing products and services from suppliers with strong environmental and social sustainability practices.
- *Implementation Example:* When procuring laboratory equipment, the institution prioritizes suppliers who adhere to recognized energy efficiency standards. This not only

promotes responsible energy consumption but also aligns with SDG 12's goals of sustainable procurement.

2. Waste Reduction Initiatives:

- *Policy:* JSSAHER encourages suppliers to adopt waste reduction measures in their processes.
- *Implementation Example:* In building contracts, construction waste is minimized through recycling initiatives. For stationary suppliers, the institution sources products with minimal packaging, promoting a circular economy and contributing to SDG 12's emphasis on waste reduction.

3. Energy Efficiency Standards:

- *Policy:* The institution sets stringent energy efficiency criteria for equipment suppliers.
- *Implementation Example:* Suppliers of electronic equipment are selected based on their adherence to recognized energy efficiency standards. This approach not only ensures responsible consumption but also aligns with SDG 12's focus on sustainable energy practices.

4. Community Engagement and Local Sourcing:

- *Policy:* JSSAHER encourages suppliers to engage with local communities and prioritize local sourcing.
- *Implementation Example:* In building contracts, clauses may stipulate the hiring of local labor, fostering community engagement and supporting SDG 12's objectives of inclusive and sustainable economic growth.

5. Transparent Reporting:

- *Policy:* JSSAHER emphasizes transparency in suppliers' sustainability practices.
- *Implementation Example:* Suppliers are required to submit regular reports detailing their environmental and social initiatives. This transparent reporting aligns with SDG 12's goal of promoting accountability in responsible business practices.

JSSAHER's commitment to extending policies to its supply chain is exemplified through tangible actions across equipment, stationary, and building contracts. By incorporating these sustainable practices, the institution not only contributes to the global agenda of responsible consumption and production but also sets an example for higher education institutions to follow suit. Through these specific examples, JSSAHER demonstrates that a commitment to SDG 12 is not merely a policy statement but a lived reality shaping a sustainable future.

JSSAHER MEASURES THE AMOUNT OF WASTE GENERATED AND RECYCLED ACROSS THE UNIVERSITY SUPPORTING SDG 12

JSSAHER's Waste Management Initiative: A Quantifiable Commitment to SDG 12

Introduction: JSS Academy of Higher Education & Research (JSSAHER) has undertaken a robust waste management initiative that includes measuring the amount of waste generated and recycled across the university. This commitment aligns with Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. The institution's approach not only contributes to reducing environmental impact but also sets a measurable standard for sustainable practices.

Key Components of JSSAHER's Waste Management Initiative:

1. Waste Quantification:
    - *Policy:* JSSAHER institutes a systematic approach to quantify the amount of waste generated on campus.
    - *Implementation:* The university conducts regular waste audits to assess the types and quantities of waste produced. This includes categorizing waste streams such as paper, plastics, electronics, and organic waste.
2. Recycling Targets:
    - *Policy:* JSSAHER establishes clear targets for waste recycling, aiming to divert a significant portion from landfills.
    - *Implementation:* Recycling bins are strategically placed across the campus, accompanied by educational campaigns to encourage proper waste segregation. The institution collaborates with recycling partners to ensure the efficient recycling of materials.
3. Waste Reduction Strategies:
    - *Policy:* JSSAHER implements proactive strategies to minimize overall waste generation.
    - *Implementation:* Initiatives include promoting the use of reusable items, implementing digital documentation to reduce paper usage, and encouraging responsible consumption habits among the university community. These actions align with SDG 12's goal of reducing waste at the source.
4. Data-Driven Decision-Making:
    - *Policy:* JSSAHER emphasizes data-driven decision-making in its waste management practices.

- *Implementation:* Regular reports are generated, detailing the quantity of waste generated, recycled, and sent to landfills. This data informs ongoing strategies, allowing the institution to continually improve its waste management practices.

5. Community Engagement:

    - *Policy:* JSSAHER engages the university community in waste reduction and recycling efforts.
    - *Implementation:* Awareness campaigns, workshops, and educational programs are conducted to promote responsible waste disposal practices among students, faculty, and staff. This community engagement aligns with SDG 12's emphasis on inclusive approaches to sustainable development.

JSSAHER's commitment to measuring and managing waste aligns seamlessly with SDG 12's objectives. By quantifying waste, setting recycling targets, implementing reduction strategies, and engaging the community, the institution is not only addressing environmental concerns but also actively contributing to a more sustainable and responsible future. The quantifiable nature of this initiative underscores JSSAHER's dedication to measurable impact and progress towards SDG 12.

Waste Wise: JSSAHER's Quantifiable Steps Towards SDG 12

JSS Academy of Higher Education & Research (JSSAHER) is taking decisive actions to manage waste effectively, aligning with the principles of Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. In this pursuit, the institution has implemented a comprehensive waste management initiative that not only measures the amount of waste generated but also sets ambitious recycling targets. Let's explore specific examples illustrating how JSSAHER is turning its waste management policy into impactful practices.

1. Waste Quantification:

- *Policy:* JSSAHER institutes a systematic approach to quantify the amount of waste generated on campus.
- *Implementation Example:* Regular waste audits are conducted across various departments and facilities, categorizing waste into distinct streams. For instance, the university measures the volume of paper, plastics, electronic waste, and organic materials generated.

2. Recycling Targets:

- *Policy:* JSSAHER establishes clear targets for waste recycling, aiming to divert a significant portion from landfills.
- *Implementation Example:* The institution sets an ambitious goal to recycle 50% of total waste by the end of the academic year. Recycling bins are strategically placed,

accompanied by informative signage, promoting responsible waste disposal practices among students and staff.

3. Waste Reduction Strategies:

- *Policy:* JSSAHER implements proactive strategies to minimize overall waste generation.
- *Implementation Example:* The university encourages the use of reusable items such as water bottles and cutlery. Digital platforms are employed for administrative processes, reducing paper consumption. These strategies contribute to SDG 12 by addressing waste at its source and promoting sustainable consumption habits.

4. Data-Driven Decision-Making:

- *Policy:* JSSAHER emphasizes data-driven decision-making in its waste management practices.
- *Implementation Example:* A dedicated waste management team analyzes monthly reports detailing the quantity of waste generated, recycled, and sent to landfills. Insights from this data inform ongoing strategies, allowing the institution to continually improve its waste management practices.

5. Community Engagement:

- *Policy:* JSSAHER engages the university community in waste reduction and recycling efforts.
- *Implementation Example:* Awareness campaigns are organized, showcasing the impact of individual actions on overall waste reduction. Workshops educate students and staff on the importance of proper waste segregation. This community engagement aligns with SDG 12's emphasis on inclusive approaches to sustainable development.

JSSAHER's waste management initiative stands as a tangible testament to its commitment to SDG 12. By quantifying waste, setting ambitious recycling targets, implementing reduction strategies, and engaging the community, the institution is actively contributing to a more sustainable and responsible future. These examples underscore JSSAHER's dedication to making measurable progress toward the goals of SDG 12 while fostering a culture of environmental responsibility within its academic community.

JSSAHER PUBLICATION OF SUSTAINABILITY REPORT ANNUALY THROUGH SDG COMPENDIUM

JSS Academy of Higher Education & Research (JSSAHER) is leading by example in sustainable practices by annually publishing a comprehensive sustainability report. This report, included in the SDG Compendium, exemplifies the institution's commitment to transparency and accountability in achieving Sustainable Development Goals (SDGs). Let's explore how JSSAHER's sustainability report contributes to SDG 12 - Responsible Consumption and Production.

Key Components of JSSAHER's Sustainability Report:

1. Comprehensive Waste Management Data:
    - *Inclusion in the SDG Compendium:* JSSAHER's sustainability report includes detailed data on waste management, showcasing the institution's efforts in responsible consumption and waste reduction.
    - *Example:* The report provides a breakdown of the types and quantities of waste generated, recycled, and sent to landfills. This transparency aligns with SDG 12's emphasis on accountability in waste management practices.
2. Recycling and Reduction Initiatives:
    - *Inclusion in the SDG Compendium:* The sustainability report highlights initiatives undertaken by JSSAHER to promote recycling and reduce overall waste generation.
    - *Example:* Specific programs, such as campaigns to reduce single-use plastics on campus or initiatives to recycle electronic waste, are detailed. These efforts contribute directly to SDG 12's goals.
3. Energy Efficiency and Conservation Measures:
    - *Inclusion in the SDG Compendium:* JSSAHER's commitment to sustainable energy practices is outlined, emphasizing its role in responsible consumption.
    - *Example:* The report covers energy-saving measures implemented across campus buildings, showcasing the institution's dedication to reducing its carbon footprint, a vital aspect of SDG 12.
4. Community Engagement and Education Programs:
    - *Inclusion in the SDG Compendium:* JSSAHER's efforts to engage and educate the community on responsible consumption and production are highlighted.
    - *Example:* The report details workshops, seminars, and awareness campaigns conducted to educate students, faculty, and staff on sustainable practices. This aligns with SDG 12's emphasis on inclusive approaches to responsible consumption.

5. Procurement Policies and Sustainable Practices:

    - *Inclusion in the SDG Compendium:* The sustainability report provides insights into JSSAHER's procurement policies, emphasizing sustainable and responsible sourcing.
    - *Example:* The institution may detail how it gives preference to suppliers with strong environmental and social sustainability practices. This aligns with SDG 12's goals of sustainable procurement.

JSSAHER's annual sustainability report, featured in the SDG Compendium, serves as a beacon of transparency and accountability. By documenting its efforts in waste management, recycling initiatives, energy efficiency measures, community engagement, and sustainable procurement, the institution not only contributes to SDG 12 but also sets a benchmark for other educational institutions. This report reflects JSSAHER's dedication to a sustainable future and the responsible consumption and production practices integral to achieving SDGs.

Institution and University has policy for the responsibility of ensuring that the commodities that are procuring and consuming are sourced in a responsible and sustainable way, promote questionable and sustainable sourcing ensuring the high standards of food served and supplied in the campus. Moreover, this policy enables the university to remove the affected and contaminated products from the campus, hence reducing incidences of foodborne illnesses.

Institution has policies Talk about the approved vendors , milk and milk products from dairy via ethical route.

The objectives of this policy is to promote the concept of questionable sourcing, ensure the high standards of foods served and supplied in the hostels, to enable the university to remove the affected and contaminated food products, and to prevent the food products from tainted and unethical sources in the entire food supply chain including uses of child labour, exploitative labour, or harsh working conditions at the supplier's factory or production units .

Institution is mostly, mindful of the wastage of food in hostels and Précised food menu is prepared according to the need of hostel inmates and prepared.. Institution also has a contract to lift the waste food to the livestock.

Institution has MOU with Karnataka State Pollution Control Board, GIPS Biotech for common treatment facility for Bio-Medical waste as per the regulations imposed by Karnataka State Pollution Control Board, the waste will be transported in closed containers/ vehicles.

ZERO EMISSION OF CARBON IN CAMPUS

As initiative towards zero pollution, the college encourages the staff members for carpooling and few staff members have started carpooling. College has purchased one electric car to reduce the emission of carbon inside the campus and few staff members & students are using electrical two wheelers in the institution. Institution is also encouraging other staff members and student to purchase and use electric vehicles to reduce carbon foot print (pollution).

ELECTRIC VEHICLE IN CAMPUS

Consumption and production in terms of electricity.

As initiative towards smart campus solar panels are installed in the college and in hostels to reduce the electricity requirements as part of clean and renewable energy utilization. The dependency has reduced by 50 % or more after the installation of Solar panels. The saving of electricity is recorded on regular basis which is given in the table below.

Green energy certification

Duration	KEB				Solar units generated		Total= (KEB & Solar)	
	Import Units KEB (A)	**Export Units from Solar (B)**	**Actual Consumption of Units C= (A-B)**	**Amounts (D)**	**Units (E)**	**Amounts (F)**	**Units G=(C+A)**	**Amounts H=(D+F)**
April-August 2022	102390	8670	93720	957625	60276	373711	153996	**879889**
July 2022 June 2023	308430	27210	281220	3099940	173883	1078075	455103	4178015

Agriculture produced in the campus.

As initiative towards smart campus the campus area has more than 60% of greenery with herbal garden and 20 varieties of Fruit bearing trees. In the campus no pesticides are used and all fruits are grown organically and distributed it among the working staff.

Recylce of paper , bottles etc

Initiative has been taken to reduce the use of plastic, and to create the awareness among the society, institutional NSS team has made a rally and distributes free cloth bags to the people.

Supply chain for stationeries etc

Institution is fully committed to operating with the highest standards of ethics, honesty and integrity throughout the supply chain

PROGRAMMES AND ACTIVITIES ORGANIZED ALIGNING TO THIS GOAL

https://jssuni.edu.in/

https://jssuni.edu.in/jssaher/outreach/Index.html

https://jssuni.edu.in/jssaher/activities-and-events/ActivityAndEventList.aspx?COLCODE=FLS&OPTION=0

https://jssuni.edu.in/JSSWeb/UDHP.aspx?PID=263

https://jssuni.edu.in/JSSWEB/UDHP.aspx?PID=619

RESEARCH ACTIVITIES SUPPORTING SDG 12

Students Projects related to SDG 12

1.	**Comparison of different ionization chambers for patient specific imrt qa**
2.	**Development of inoculum, scaling up process and quality assessment involved in the production of serratiopeptidase in an industrial set up**
3.	**Comparative Evaluation of Gluconacetobacter diazotrophicus and Bacillus megaterium on the Growth of Sugarcane (Saccharum officinarum L.)**
4.	**Explainable artificial intelligence for crop disease detection"**

Publications related to SDG 12

1.	Dr Nagalambika Prasad. Isolation, screening and optimization of laccase production by fusarium spp. Under submerged fermentation. Ecology, environment and conservation
2.	Dr Nagalambika Prasad. Food colors and dyes - its safety and concern in modern world: a review.Indian journal of natural sciences.
3	Jijoe Samuel Prabagar, Yadav Sneha, Thinley Tenzin, Behzad Shahmoradi, Sami Rtimi, Kitirote Wantala, David Jenkins, Shivaraju HP (2022), Photocatalytic transfer of aqueous nitrogen into ammonia using nickel-titanium-layered double hydroxide, Environmental Science and Pollution Research https://doi.org/10.1007/s11356-022-24726-7
4	Sarana Rose Sommano, Tibet Tangpao, Tanachai Pankasemsuk, Voranate Ponpanumas, Yuthana Phimolsiripol, Pornchai Rachtanapun and **Shashanka K. Prasad**. (2022), 'Growing ganja permission: a real gate-way for Thailand's promising industrial crop?', *Journal of Cannabis Research*, 4:10, doi: https://doi.org/10.1186/s42238-022-00121-4
5	Sukanya Haituk, Patchareeya Withee, Jiraporn Sangta, Chanokned Senwanna, Pattarapol Khamsaw, Anuruddha Karunarathna, Surat Hongsibsong, Korawan Sringarm, **Shashanka K. Prasad**, Sarana Rose Sommano, Ratchadawan Cheewangkoon. (2022), 'Production of Non-Volatile Metabolites from Sooty Molds and Their Bio-Functionalities', *Processes,* 10(2), 329, doi: https://doi.org/10.3390/pr10020329
7	Jijoe Samuel Prabagar, Yadav Sneha, Thinley Tenzin, Behzad Shahmoradi, Sami Rtimi, Kitirote Wantala, David Jenkins, Shivaraju HP (2022), Photocatalytic transfer of aqueous nitrogen into ammonia using nickel-titanium-layered double hydroxide, Environmental Science and Pollution Research https://doi.org/10.1007/s11356-022-24726-7
8	Sarana Rose Sommano, Tibet Tangpao, Tanachai Pankasemsuk, Voranate Ponpanumas, Yuthana Phimolsiripol, Pornchai Rachtanapun and **Shashanka K. Prasad**. (2022), 'Growing ganja permission: a real gate-way for Thailand's promising industrial crop?', *Journal of Cannabis Research*, 4:10, doi: https://doi.org/10.1186/s42238-022-00121-4
9	Sukanya Haituk, Patchareeya Withee, Jiraporn Sangta, Chanokned Senwanna, Pattarapol Khamsaw, Anuruddha Karunarathna, Surat Hongsibsong, Korawan Sringarm, **Shashanka K. Prasad**, Sarana Rose Sommano, Ratchadawan Cheewangkoon. (2022), 'Production of Non-Volatile Metabolites from Sooty Molds and Their Bio-Functionalities', *Processes,* 10(2), 329, doi: https://doi.org/10.3390/pr10020329

FOOD SUPPLY , SAFETY & FOOD WASTE MANAGEMENT

JSSAHER's Impactful Initiatives in Food Supply, Security, and Waste Management towards SDG 12

JSS Academy of Higher Education & Research (JSSAHER) is not only a pioneer in academia but also a trailblazer in sustainability, exemplifying its commitment to Sustainable Development Goal 12 (SDG 12) - Responsible Consumption and Production. This comprehensive note delves into the institution's transformative activities specifically focused on food supply, security, and waste management, highlighting the pivotal role JSSAHER plays in fostering a sustainable future.

1. Sustainable Food Procurement: At the heart of JSSAHER's commitment to SDG 12 is its approach to food procurement. The institution prioritizes sourcing food locally and sustainably, engaging with suppliers who adhere to ethical and environmental standards. This conscious approach not only supports local economies but also contributes to responsible consumption patterns by minimizing the environmental impact associated with food production and transportation.

2. Campus Agriculture and Urban Farming: JSSAHER has implemented innovative solutions to enhance food supply sustainability through campus agriculture and urban farming initiatives. By cultivating fresh produce on campus, the institution not only contributes to food security but also reduces the carbon footprint associated with long-distance transportation. This aligns with SDG 12's goal of promoting sustainable and efficient resource use.

3. Food Security Programs: Recognizing the importance of food security, JSSAHER actively engages in programs aimed at ensuring that the university community has reliable access to nutritious food. Collaborative efforts with local communities and organizations contribute to addressing food insecurity issues, aligning with SDG 12's focus on enhancing access to safe and nutritious food for all.

4. Food Waste Reduction Strategies: A cornerstone of JSSAHER's commitment to SDG 12 is its rigorous approach to food waste management. The institution implements strategies to minimize food waste across dining facilities and events, such as implementing portion control, facilitating food donations to local charities, and raising awareness about responsible consumption among **students and staff.**

5. Sustainable Catering Practices: JSSAHER extends its sustainable practices to catering services, emphasizing responsible consumption during events and gatherings. The institution collaborates with catering partners who align with sustainability principles, ensuring that food served at various functions adheres to ethical and environmental standards. This practice reflects a holistic commitment to responsible consumption in all aspects of campus life.

6. Community Education on Responsible Consumption: JSSAHER takes a proactive approach to educating the university community on responsible food consumption. Workshops, seminars, and awareness campaigns focus on topics such as mindful eating, the environmental impact of dietary choices, and the importance of reducing food waste. These initiatives contribute to building a culture of responsibility and consciousness around food consumption, in line with SDG 12's objectives.

7. Transparent Reporting in Sustainability Documentation: In its annual sustainability reports, JSSAHER transparently documents its achievements and challenges related to food supply, security, and waste management. These reports, included in the SDG Compendium, provide stakeholders with insights into the institution's efforts to align with SDG 12, fostering accountability and continuous improvement.

8. Research Contributions to Sustainable Agriculture: JSSAHER's academic expertise extends to research in sustainable agriculture practices. Faculty and students engage in projects and studies aimed at developing and promoting sustainable agricultural methods, contributing valuable knowledge to the broader field of sustainable food production.

JSSAHER's multifaceted approach to food supply, security, and waste management exemplifies a commitment to the principles of SDG 12. From sustainable food procurement and campus agriculture to food security programs, waste reduction strategies, and community education, the institution is actively shaping a sustainable future. JSSAHER's initiatives serve as a blueprint for educational institutions worldwide, showcasing the transformative power of conscious and responsible consumption. In navigating the intersection of education, sustainability, and responsible consumption, JSSAHER is sowing the seeds of a more sustainable and resilient future.

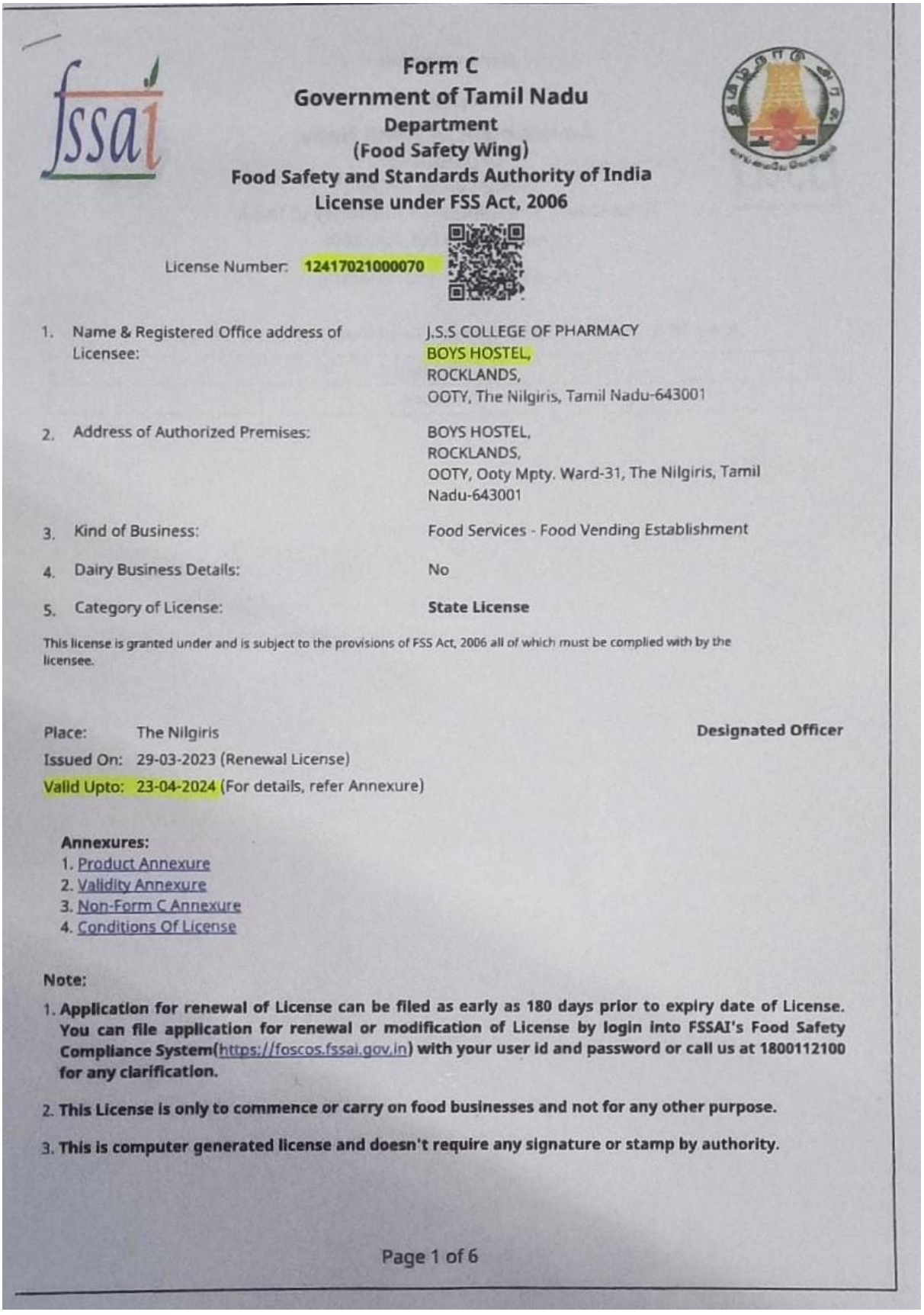
Food Waste Management Methods at JSS Academy of Higher Education & Research (JSSAHER):

1. **Source Segregation:** JSSAHER implements a robust source segregation system in its dining facilities and campus events. Waste bins are strategically placed for the separation of organic food waste from non-biodegradable items. This initial step ensures that food waste is properly identified and can be directed towards appropriate disposal methods.
2. **Composting Facilities:** The institution invests in on-site composting facilities to process organic food waste. These facilities efficiently convert kitchen scraps, vegetable peelings, and other organic matter into nutrient-rich compost. The resulting compost is then utilized in campus landscaping and agricultural initiatives, completing a sustainable cycle.
3. **Food Donation Programs:** JSSAHER collaborates with local charities and community organizations to facilitate food donation programs. Surplus but edible food from dining facilities and events is carefully packaged and donated to those in need. This not only minimizes food waste but also addresses food insecurity in the local community.
4. **Portion Control and Menu Optimization:** The institution emphasizes portion control in its dining facilities to reduce plate waste. Additionally, menu optimization strategies are employed to align food production with actual consumption patterns, minimizing overproduction and subsequent waste. This approach helps in responsible food planning and resource utilization.
5. **Awareness Campaigns:** JSSAHER conducts regular awareness campaigns on responsible food consumption and waste reduction. These campaigns engage students, faculty, and staff, educating them on the environmental impact of food waste and encouraging mindful

eating habits. Increased awareness contributes to a culture of responsibility surrounding food consumption.

6. **Partnerships with Sustainable Caterers:** When organizing events on campus, JSSAHER collaborates with catering services that share the institution's commitment to sustainability. These partners are selected based on their adherence to ethical and environmental standards, ensuring that the food served aligns with responsible consumption principles.
7. **Monitoring and Analysis:** The institution employs monitoring systems to track and analyze food waste generation patterns. Data on the types and quantities of food waste generated are regularly assessed. This analytical approach helps in identifying areas for improvement and implementing targeted interventions to further reduce waste.
8. **Incorporation of Technology:** JSSAHER explores technological solutions to enhance food waste management. This may include the use of smart sensors to monitor food inventory levels, allowing for real-time adjustments in procurement and production. Technology aids in optimizing food service operations and minimizing avoidable waste.
9. **Educational Programs for Culinary Staff:** Culinary staff at JSSAHER undergo educational programs on efficient food preparation techniques, storage practices, and creative use of leftovers. These programs empower staff members to contribute actively to the institution's food waste reduction goals through their culinary expertise.
10. **Regular Audits and Reporting:** JSSAHER conducts regular audits of its food waste management practices. These audits assess the effectiveness of existing strategies and identify areas for improvement. The findings are transparently reported in the institution's annual sustainability documentation, contributing to a culture of accountability.

By employing these comprehensive methods, JSSAHER actively addresses food waste challenges, aligning its practices with the principles of SDG 12 - Responsible Consumption and Production. The institution's commitment to sustainable food management serves as a model for promoting environmental stewardship and responsible resource utilization.



Form C
Government of Tamil Nadu
Department
(Food Safety Wing)
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: 12417021000070

1.	Name & Registered Office address of Licensee:	J.S.S COLLEGE OF PHARMACY BOYS HOSTEL, ROCKLANDS, OOTY, The Nilgiris, Tamil Nadu-643001
2.	Address of Authorized Premises:	BOYS HOSTEL, ROCKLANDS, OOTY, Ooty Mpty. Ward-31, The Nilgiris, Tamil Nadu-643001
3.	Kind of Business:	Food Services - Food Vending Establishment
4.	Dairy Business Details:	No
5.	Category of License:	**State License**

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: The Nilgiris
Designated Officer
Issued On: 29-03-2023 (Renewal License)
Valid Upto: 23-04-2024 (For details, refer Annexure)

Annexures:
1. Product Annexure
2. Validity Annexure
3. Non-Form C Annexure
4. Conditions Of License

Note:

1. **Application for renewal of License can be filed as early as 180 days prior to expiry date of License. You can file application for renewal or modification of License by login into FSSAI's Food Safety Compliance System(https://foscos.fssai.gov.in) with your user id and password or call us at 1800112100 for any clarification.**
2. **This License is only to commence or carry on food businesses and not for any other purpose.**
3. **This is computer generated license and doesn't require any signature or stamp by authority.**

Page 1 of 6

Food safety certificate of boy's hostel

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Page 1 of 6

Food safety certificate of boy's hostel

SUMMARY

JSSAHER'S TRANSFORMATIVE JOURNEY: A COMPREHENSIVE OVERVIEW OF ACTIVITIES SUPPORTING SDG 12 - RESPONSIBLE CONSUMPTION AND PRODUCTION"

JSS Academy of Higher Education & Research (JSSAHER) stands at the forefront of sustainable development, embodying its commitment to fostering responsible consumption and production as outlined in Sustainable Development Goal 12 (SDG 12). This comprehensive note explores the various activities undertaken by JSSAHER that align with and actively contribute to the realization of SDG 12.

1. Waste Management Excellence: JSSAHER has implemented a robust waste management system, emphasizing responsible consumption practices. Regular waste audits are conducted across campus, providing insights into the types and quantities of waste generated. The institution is committed to quantifying and minimizing waste sent to landfills, aligning with SDG 12's call for sustainable waste management practices.

2. Recycling Initiatives: A hallmark of JSSAHER's commitment to SDG 12 is its emphasis on recycling. The institution has established recycling targets, with dedicated bins strategically placed across campus for paper, plastics, and electronic waste. Initiatives to recycle materials contribute to reducing the environmental impact associated with resource extraction and production.

3. Energy Efficiency Measures: JSSAHER prioritizes energy efficiency as part of its sustainable practices. The institution has implemented measures to conserve energy, adopting energy-efficient lighting, investing in renewable energy sources, and optimizing building designs. These efforts align with SDG 12's objective of ensuring sustainable consumption patterns and reducing the carbon footprint.

4. Sustainable Procurement Policies: JSSAHER's procurement policies reflect a commitment to responsible sourcing. The institution gives preference to suppliers with strong environmental and social sustainability practices. By choosing sustainable alternatives in procurement, such as eco-friendly office supplies and materials, JSSAHER actively supports SDG 12's emphasis on sustainable and ethical consumption.

5. Community Engagement for Responsible Consumption: A key driver of JSSAHER's impact on SDG 12 is its focus on community engagement. The institution conducts awareness campaigns, workshops, and educational programs to instill a sense of responsibility among students, faculty,

and staff. Through these initiatives, JSSAHER promotes a culture of responsible consumption within its academic community.

6. Transparent Reporting in Annual Sustainability Reports: JSSAHER annually publishes a comprehensive sustainability report, contributing to the global discourse on responsible consumption and production. This report, included in the SDG Compendium, outlines the institution's achievements, challenges, and future goals related to SDG 12. The transparent reporting mechanism reflects JSSAHER's commitment to accountability and continuous improvement.

7. Collaborations for Global Impact: JSSAHER collaborates with national and international bodies, sharing best practices and contributing to the global dialogue on sustainable development. Collaborative efforts with organizations such as WHO, SCOPE, NAM S&T, and Ethiopian FDA enhance the institution's reach and impact, fostering a collective approach towards achieving SDG 12 on a broader scale.

8. Capacity Building and Training Programs: JSSAHER actively engages in capacity building initiatives, conducting training programs for regulatory bodies, pharmaceutical units, and FDA officials. By imparting knowledge on sustainable practices in pharmaceutical manufacturing and regulatory affairs, JSSAHER contributes to SDG 12 by promoting responsible production within the healthcare sector.

JSSAHER's multifaceted approach to SDG 12 demonstrates a holistic commitment to responsible consumption and production. From waste management and recycling initiatives to energy efficiency measures, sustainable procurement policies, community engagement, and transparent reporting, the institution serves as a beacon of sustainable practices in the academic realm. Through its activities, JSSAHER not only meets the targets of SDG 12 but also sets an inspiring example for other educational institutions and organizations globally. In navigating this transformative journey, JSSAHER exemplifies the power of education and institutional commitment in shaping a sustainable and responsible future.

PLASTIC FREE CAMPUS

PLASTIC PELLETIZING MACHINES TO BE INSTALLED IN THE CAMPUS WITH THE SUPPORT OF MYSORE CITY CORPORATION.

CARBON SEQUESTRATION

TREE SURVEY COMPLETED

CARBON FOOTPRINT

PRACTISE LOW CARBON FOOD

ANNEXURES SUPPORTING THE JSSAHER COMPENDIUM ON SDG 12

Annexure-1- Policies

https://jssuni.edu.in/JSSWEB/UDHP.aspx?PID=619

https://jssuni.edu.in/JSSWEB/UDHP.aspx?PID=786

https://jssuni.edu.in/JSSWEB/UDHP.aspx?PID=785

Annexures -2- Reports

https://jssuni.edu.in/JSSWEB/UDHP.aspx?PID=785

https://jssuni.edu.in/JSSWeb/UDHP.aspx?PID=263

https://jssuni.edu.in/jssaher/outreach/outreach-all-reports.html

Food & Supplies Policy of
JSS Academy OF Higher Education & Research

Preamble:

JSS Academy of Higher Education & Research (JSSAHER) is committed to its "JSSAHER Social Responsibility Statement & Vision" to provide sustainable, eco-friendly smart campus. The"Food & Supplies Policy" is related to procurement, storage, and maintenance of food at (JSSAHER), which is a part of "Smart Campus Policy". This policy provides provisions through which food to be procurement, stored, maintained, and delivered to all the constituent colleges and departments of JSSAHER.

JSSAHER and its constituent colleges and departments are responsible in working with suppliers, contractors, and partners to minimize environmental effects related to servicesand supports local suppliers and that all procurements represent value for money. All stakeholders shall assist JSSAHER in meeting the sustainable food & supply policy.

This policy is focused on but not limited to provision and procurement of food at JSSAHER. It applies to all aspects of sustainable food, including procurement, provision preparation, waste management, education, awareness, and services.

Objective:

JSSAHER ensures that:

- Procurement, storage, and maintenance of food is reliable, safe and represent valuefor money.
- Environmental and social responsibility is factored into all tenders and contracts and encourages small-sized businesses.
- Suppliers are committed to sustainable use of transport, packaging, storing etc. Communication on progress made during the contract period.
- Recycling process for quantities and effective waste reduction.
- Use of biodegradable packaging whenever possible.
- Recycling and reuse where applicable.
- Minimizing wastage during procurement, storage, maintenance and delivery.
- To serve sustainable food and to reduce plate waste.

Roles and responsibilities:

- JSSAHER and its constituent colleges and departments shall procure food in a sustainable manner in accordance with the "JSSAHER Social Responsibility Statement,Smart Campus Policy", which are available from the JSSAHE's website https://jssuni.edu.in.
- The Deputy Registrar has overall responsibility for the implementation and delivery ofthe policy within The University's catering department. However, different colleges and departments shall have responsibility for managing aspects relevant tothedepartment.
- Responsibility for application of the principles and practical delivery of this policy within the college in general lies with the Administrative Officers.
- Responsibility for application of the principles and practical delivery of this policy within catering services lies with the hostel wardens, catering managers and teams.
- JSSAHER shall promote sustainable food to customers to increase awareness and sales through meetings and workshops.
- Any changes to our sustainable food practices will be communicated on an annual basis as a summary report.
- The summary report will be produced by the Campus Maintenance Committeefollowing an annual review by the Registrar and Deputy Registrar.
- Promote and supply seasonal fruit and vegetables to customers.
- Engage suppliers to measure the amount of local and seasonal fruit and vegetables and use them to help with procurement decisions.
- Increase the procurement and consumption of organic food, focusing on health,well-being, and environmental benefits.
- Move all disposable products to biodegradable alternatives where possible and reduce the number of disposables used.
- Ensuring tap water and drinking water is available at every catering outlet.
- Eco friendly and effective cleaning materials.
- Send zero food waste to landfill directly and recycle all waste.
- Encouraging sustainable food: Contribute to thriving local economies and sustainable livelihoods. Protect the diversity of both plants and animals and the welfare of farmed and wild species and avoid damaging natural resources.
- Support a culture of healthy eating.
- Provide social benefits, such as good quality food, safe and healthy products, and educational opportunities.
- Sustainable procurement is partly about buying and sourcing green products but it's also about ensuring energy and resource efficiency as well as long term cost effectiveness.
- Fair trade on better prices, decent working conditions and local sustainability.
- Saving costs measured across the whole lifecycle of a product.
- Decisions on procurement and accreditation should be made based on a rational assessment of value, ethics, and market trends.

The Policy Supports:

- The Swachh Bharat Mission (Urban) guidelines, Government of India.
- National conservation strategy and policy statement on environment and development, Government of India.
- National Cyber Security Policy, Ministry of Communication and Information Technology, Government of India.

Supporting Documents:

1. Food Safety and Standards Authority of India –License Number: 11219335000512
2. Food Safety and Standards Authority of India –License Number: 11219335000513
3. Food Safety and Standards Authority of India –License Number: 11219335000510

Approval& Implementation of the Policy:

This policy has been approved by the Registrar and shall be reviewed annually by the Deputy Registrar and shall ensure that continued progress is being made. The Campus maintenance committee shall advise on the sustainability agenda affecting food procurement and provision.

- All the documents related to agreements made with suppliers and vendors and license from food and safety standards authority of India shall be maintained in the office of Registrar and Deputy Registrar, JSS Academy of Higher Education & Research, Mysuru.
- Questions related to the daily operational interpretation of this policy shall be directed to Registrar and Deputy Registrar, JSS Academy of Higher Education & Research, Mysuru.
- The Vice Chancellor, Registrar and Deputy Registrar of JSSAHER shall be the officials responsible for the interpretation and administration of this policy.

The revision of policy shall take place as per the suggestions made by campus maintenance committee on the sustainability agenda affecting food procurement and provision. This Policy will be periodically reviewed to assess its effectiveness and updated as necessary to ensure alignment with the institution's Social Responsibility.

Date of Implementation: 01.06.2016
Date of Last Revision: 01.06.2023
Date for Next Revision: 01.06.2026

JSS Academy of Higher Education & Research Mysuru-570 015

REGISTRAR

JSS Academy of Higher Education & Research
Sri Shivarathreeshwara Nagara
Mysuru-570015, Karnataka, India

JSS Academy of Higher Education & Research
(Deemed to be AHER)
Accredited "A+" Grade by NAAC

No: JSSAHER/REG/GAD-I(1)/FSSAI/215/2017-18/2641 Date: 05.06.2023

CIRCULAR

Sub: - Forwarding of License Certificate issued by FSSAI – Reg.
Ref: - Approved by the Vice Chancellor vide para (159) in the O/n.

Please find the enclosed copy of the FSSAI License Certificate availed from FSSAI, GOK as per the Food Safety and Standards Act 2006 for a period of ONE-year w.e.f. 05.05.2023 to 04.05.2024 at an annual fee of Rs. 2,000/- per registration to all the JSS AHER Hostels at Mysuru. The details of License Certificate issued by FSSAI are as stated below:

No.	Details of License	Fee Paid	Fee Rt. & Date
A	Modification Charges	1,000.00	20220825103898083, dt 25.08.2022
I	**JSSAHER – College of Pharmacy Campus, Mysuru**		
1	JSSAHER Hostel for Men ***License No.: 11223335000149***	1,000.00	1519561410724975, dt 21.04.2023
		1,000.00	11591233961971648, dt 05.05.2023
2	JSSAHER Hostel for Women ***License No.: 11223335000150***	1,000.00	11410019065427938, dt 03.05.2023
		1,000.00	11592540199245289, dt 05.05.2023
II	**JSSAHER – Medical Institutions Campus, Mysuru**		
3	JSSAHER Hostel for Women – *D Block* ***License No.: 11223335000151***	1,000.00	11413094495183234, dt 03.05.2023
		1,000.00	11591936807934274, dt 05.05.2023
4	JSSAHER Hostel for Women – *Mess Block* ***License No.: 11223335000152***	1,000.00	11414975903291918, dt 03.05.2023
		1,000.00	11591826617836860, dt 05.05.2023
5	JSSAHER Hostel for Men ***License No.: 11223335000153***	1,000.00	11491635216684346, dt 04.05.2023
		1,000.00	11592463275679624, dt 05.05.2023
6	JSSAHER PG Hostel *(Guest House)* ***License No.: 11223335000154***	1,000.00	11495329494881507, dt 04.05.2023
		1,000.00	11593486718576856, dt 05.05.2023

No.	Details of License	Fee Paid	Fee Rt. & Date
III	**JSSAHER – JSS Hospital Campus, Mysuru**		
7	JSSAHER PG Resident Hostel ***License No.: 11223323000181***	1,000.00	11498629595681940, Dt 04.05.2023
		1,000.00	11592573233890963, Dt 05.05.2023
TOTAL AMOUNT		**15,000.00**	

Further, it is advised to display the same (both the side) in the Kitchen and Dining Area at each hostel block and to follow the guidelines laid down by FSSAI without fail.

Meanwhile, it is advised to refund / reimburse a sum of Rs. 2,000/- per registration to JSS AHER A/c as stated at serial no.: 1 – 7 being the initial expenditure borne by JSS AHER and to debit the same under respective head of account of the hostels. However, the expenditure of Rs.1,000/- incurred towards modification charges has been debited under JSS AHER A/c.

Encl: Copy of the respective FSSAI Certificate

REGISTRAR

To,

1. The Chief Warden, JSSAHER Hostels for Men and Women, JSSMI Campus, Mysuru
2. The Warden, JSSAHER Hostels for Men and Women, JSSCP Campus, Mysuru
3. The Supervisor, JSSAHER PG Hostel, JSSMI Campus, Mysuru
4. The Warden, JSSAHER Hostels for Men & Women, Off Campus (SLS), Mysuru
5. The Warden, JSSAHER PG Residents Block, JSS Hospital Campus, Mysuru
6. Office copy

Copy to: -

1. The Finance Officer, JSSAHER, Mysuru
2. The Principal, JSS Medical College, Mysuru
3. The Principal, JSS Dental College & Hospital, Mysuru
4. The Principal, JSS College of Pharmacy, Mysuru
5. The Head, SLS, JSSAHER, Mysuru – *Please ensure that the outsourced agency is having valid FSSAI Certification*
6. Office Copy

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000153**

1.	Name & Registered Office address of Licensee:	JSS ACADEMY OF HIGHER EDUCATION & RESEARCH JSS Academy of Higher Education & Research, Hostel for Men, JSS Medical Institutions Campus, Sri Shivarathreeshwara Nagara, Mysore. , Mysore, Karnataka-570015
2.	Address of Authorized Premises:	JSS Academy of Higher Education & Research, Hostel for Men, JSS Medical Institutions Campus, Sri Shivarathreeshwara Nagara, Mysore. , Mysore Mahanagar Palike II Circle , Mysore, Karnataka-570015
3.	Kind of Business:	Food Services - Club/Canteen
4.	Dairy Business Details:	No
5.	Category of License:	**State License**

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: Mysore
Issued On: 05-05-2023 (New License)
Valid Upto: 04-05-2024 (For details, refer Annexure)

Designated Officer
Date : 05-05-2023 16:37:43
User Id : 107913
Verified through Mobile : 86XXXXXX04
License Grant on : 05-05-2023 13:38:36
License Issued On : 05-05-2023 16:37:43

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Annexures:
1. Product Annexure
2. Validity Annexure
3. Non-Form C Annexure
4. Conditions Of License

Product Annexure

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000153**

Kind Of Business: Food Services - Club/Canteen

Sl.No.	Product(s)
1	14 - Beverages, excluding dairy products
2	16 - Prepared Foods

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000152**

1.	Name & Registered Office address of Licensee:	JSS ACADEMY OF HIGHER EDUCATION & RESEARCH JSS Academy of Higher Education & Research, Hostel for Women, JSS Medical Institutions, Shivarathreeshwara Nagara,Mysuru., Mysore, Karnataka-570015
2.	Address of Authorized Premises:	JSS Academy of Higher Education & Research, Hostel for Women, JSS Medical Institutions, Shivarathreeshwara Nagara,Mysuru., Mysore Mahanagar Palike II Circle , Mysore, Karnataka-570015
3.	Kind of Business:	Food Services - Club/Canteen
4.	Dairy Business Details:	No
5.	Category of License:	**State License**

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: Mysore
Issued On: 05-05-2023 (New License)
Valid Upto: 04-05-2024 (For details, refer Annexure)

Designated Officer
Date : 05-05-2023 16:31:43
User Id : 107913
Verified through Mobile : 86XXXXXX04
License Grant on : 05-05-2023 13:37:53
License Issued On : 05-05-2023 16:31:43

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ,
ಮೈಸೂರು.

Annexures:
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Product Annexure

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000152**

Kind Of Business: Food Services - Club/Canteen

Sl.No.	Product(s)
1	16 - Prepared Foods
2	14 - Beverages, excluding dairy products

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000151**

1.	Name & Registered Office address of Licensee:	JSS ACADEMY OF HIGHER EDUCATION & RESEARCH JSS Academy of Higher Education & Research, Hostel for Women ('D' Block), JSS Institutions Campus, Shivarathreeshwara Nagara,Mysuru., Mysore, Karnataka-570015
2.	Address of Authorized Premises:	JSS Academy of Higher Education & Research, Hostel for Women ('D' Block), JSS Institutions Campus, Shivarathreeshwara Nagara,Mysuru., Mysore Mahanagar Palike II Circle , Mysore, Karnataka-570015
3.	Kind of Business:	Food Services - Club/Canteen
4.	Dairy Business Details:	No
5.	Category of License:	**State License**

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: Mysore
Issued On: 05-05-2023 (New License)
Valid Upto: 04-05-2024 (For details, refer Annexure)

Designated Officer
Date : 05-05-2023 16:28:43
User Id : 107913
Verified through Mobile : 86XXXXXX04
License Grant on : 05-05-2023 13:37:10
License Issued On : 05-05-2023 16:28:43

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Annexures:
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2. Validity Annexure
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Product Annexure

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000151**

Kind Of Business: Food Services - Club/Canteen

Sl.No.	Product(s)
1	16 - Prepared Foods
2	14 - Beverages, excluding dairy products

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000154**

1.	Name & Registered Office address of Licensee:	JSS ACADEMY OF HIGHER EDUCATION & RESEARCH JSS Academy of Higher Education & Research, PG Hostel, JSS Medical Institutions Campus, Sri Shivarathreeshwara Nagara,, Mysore, Karnataka-570015
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3.	Kind of Business:	Food Services - Club/Canteen
4.	Dairy Business Details:	No
5.	Category of License:	**State License**

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: Mysore
Issued On: 05-05-2023 (New License)
Valid Upto: 04-05-2024 (For details, refer Annexure)

Designated Officer
Date : 05-05-2023 16:40:46
User Id : 107913
Verified through Mobile : 86XXXXXX04
License Grant on : 05-05-2023 13:20:44
License Issued On : 05-05-2023 16:40:46

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪಿ.
ಮೈಸೂರು.

Annexures:
1. Product Annexure
2. Validity Annexure
3. Non-Form C Annexure
4. Conditions Of License

Product Annexure

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000154**

Kind Of Business: Food Services - Club/Canteen

Sl.No.	Product(s)
1	16 - Prepared Foods
2	14 - Beverages, excluding dairy products

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000150**

1.	Name & Registered Office address of Licensee:	JSS ACADEMY OF HIGHER EDUCATION & RESEARCH JSS Academy of Higher Education & Reseach, Hostel for Women, JSS College of Pharmacy Campus, Sri Shivarathreeshwara Nagara, Mysuru., Mysore, Karnataka-570015
2.	Address of Authorized Premises:	JSS Academy of Higher Education & Reseach, Hostel for Women, JSS College of Pharmacy Campus, Sri Shivarathreeshwara Nagara, Mysuru., Mysore Mahanagar Palike II Circle , Mysore, Karnataka-570015
3.	Kind of Business:	Food Services - Club/Canteen
4.	Dairy Business Details:	No
5.	Category of License:	**State License**

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: Mysore
Issued On: 05-05-2023 (New License)
Valid Upto: 04-05-2024 (For details, refer Annexure)

Designated Officer
Date : 05-05-2023 16:24:56
User Id : 107913
Verified through Mobile : 86XXXXXX04
License Grant on : 05-05-2023 13:36:23
License Issued On : 05-05-2023 16:24:56

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ,
ಮೈಸೂರು.

Annexures:
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Product Annexure

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000150**

Kind Of Business: Food Services - Club/Canteen

Sl.No.	Product(s)
1	16 - Prepared Foods
2	14 - Beverages, excluding dairy products

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000149**

1.	Name & Registered Office address of Licensee:	JSS ACADEMY OF HIGHER EDUCATION & RESEARCH JSS Academy Of Higher Education & Research, Hostel for Men, JSS College of Pharmacy Campus, Sri Shivarathreeshwara Nagara, Mysore., Mysore, Karnataka-570015
2.	Address of Authorized Premises:	JSS Academy Of Higher Education & Research, Hostel for Men, JSS College of Pharmacy Campus, Sri Shivarathreeshwara Nagara, Mysore., Mysore Mahanagar Palike II Circle , Mysore, Karnataka-570015
3.	Kind of Business:	Food Services - Club/Canteen
4.	Dairy Business Details:	No
5.	Category of License:	**State License**

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: Mysore
Issued On: 05-05-2023 (New License)
Valid Upto: 04-05-2024 (For details, refer Annexure)

Designated Officer
Date : 05-05-2023 16:22:00
User Id : 107913
Verified through Mobile : 86XXXXXX04
License Grant on : 05-05-2023 13:35:36
License Issued On : 05-05-2023 16:22:00

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Annexures:
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Product Annexure

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223335000149**

Kind Of Business: Food Services - Club/Canteen

Sl.No.	Product(s)
1	16 - Prepared Foods
2	14 - Beverages, excluding dairy products

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223323000181**

1.	Name & Registered Office address of Licensee:	JSS ACADEMY OF HIGHER EDUCATION & RESEARCH JSS Academy of Higher Education & Research, PG Hostel for Men & Women, JSS Hospital Campus, M.G.Road, Agrahara., Mysore, Karnataka-570004
2.	Address of Authorized Premises:	JSS Academy of Higher Education & Research, PG Hostel for Men & Women, JSS Hospital Campus, M.G.Road, Agrahara., Mysore Mahanagar Palike I Circle , Mysore, Karnataka-570004
3.	Kind of Business:	Food Services - Club/Canteen
4.	Dairy Business Details:	No
5.	Category of License:	**State License**

This license is granted under and is subject to the provisions of FSS Act, 2006 all of which must be complied with by the licensee.

Place: Mysore
Issued On: 05-05-2023 (New License)
Valid Upto: 04-05-2024 (For details, refer Annexure)

Designated Officer
Date : 05-05-2023 16:44:07
User Id : 107915
Verified through Mobile : 86XXXXXX04
License Grant on : 05-05-2023 13:18:18
License Issued On : 05-05-2023 16:44:07

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ.
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

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Form C
Government of Karnataka
Food Safety and Standards Authority of India
License under FSS Act, 2006

License Number: **11223323000181**

Kind Of Business: Food Services - Club/Canteen

Sl.No.	Product(s)
1	16 - Prepared Foods
2	14 - Beverages, excluding dairy products

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
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ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ.
ಮೈಸೂರು.

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
(DEEMED TO BE UNIVERSITY) MYSURU

JSS Academy of Higher Education & Research
(Deemed to be University)
Accredited 'A+' Grade by NAAC
Sri Shivarathreeshwara Nagara
Mysuru – 570 015, Karnataka, INDIA

Plastics Policy

I. Preamble:

JSS Academy of higher education & Research is committed to protecting the environment by minimising the use of plastic in the campus. JSSAHER recognises that waste plastics pose a global threat to environment. Within the context of Smart Campus Policy, JSSAHER is working on minimising the use of plastics, to reducing the environmental impact of waste plastics.

II. Policy Description:

- Measure and audit the use of plastics and set targets for reduction
- Plastics less than 50 microns is banned at JSSAHER
- Where possible, to use only those plastic products that can be easily reused or recycled
- Encourage innovative recycling opportunities for the plastic waste in buildings, cafes and daily operations
- Work with stake holders to develop capability and capacity for recycling plastic waste
- Maintain housekeeping standards at campus to attend to plastic litter
- Work with employees, customers and suppliers to encourage them to take practical steps to reduce the use of plastic and the production of plastic waste
- Expand campaign to highlight the environmental damage caused by plastic waste,
- Promote behaviours that reduce reliance on plastics and the reduction of plastic packaging waste
- Fund research and pilot projects for removing plastic waste
- Support and encourage employee and community initiatives to remove plastic waste and litter from the environment
- Work in partnership with research bodies, universities, suppliers, and other stakeholders to meet these policy objectives.
- Plastic Hazard Awareness program as a part outreach activity

III. The Campus Maintenance & Management Authority:

Registrar and Deputy Registrar shall be the principal coordinator of all design disciplines, which includes responsibility for the implementation of this policy.
Constituent Colleges & Departments are responsible for internal monitor on the use of plastic and recycling efforts.

IV. The policy relates to:

- Smart campus policy of JSSAHER.
- The Swachh Bharat Mission (Urban) guidelines, Government of India.
- National conservation strategy and policy statement on environment and development, Government of India.

V. Date of implementation

This policy will come into immediate effect from 01.01 .2022

VI. Date of revision

01.01.2024

REGISTRAR

AVISON ENVIRO SYSTEMS LLP

No.80, 7th Cross Street, Santhosh Nagar, Puthagaram,
Teachers Colony, Kolathur, Chennai 600 099.
E-mail: lab@avison.in | www.avison.in
☎ +91 44-4860 0077, 3559 2582

An ISO 9001:2015,ISO 45001:2018 Certified Organization

TEST REPORT

Job No.	314/22-23	Report No.	22000001896	Report Date	19.09.2022

Sample Description : **Ambient Air Quality Monitoring**
Customer Name : **M/s. JSS Academy of Higher Education & Research**
Customer Address : Sri Shivarathreeshwara Nagara Mysuru – 570 015, Karnataka,India.

Sample Drawn by : AES
Date of Monitoring : 16.09.2022
Location : **Near Food Court Area**
Sample Code : AES2209150
Sample Received On : 17.09.2022

Sampling Method : AES/EN/GEN/SOP/002
Time of Monitoring : 1215 Hrs to 2015 Hrs
Temperature :28°C
Humidity : 67%
Sample Completed On : 19.09.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Carbon Dioxide as CO_2	AES/EN/AQM/SOP/002	ppm	496	---

For AVISON ENVIRO SYSTEMS LLP

AVISON ENVIRO SYSTEMS LLP ★ CHENNAI 600099

Verified by

Authorized Signatory

R. VIVEKANANTH
TECHNICAL MANAGER

****End of Report****

Perfection in Service is our motto...

AVISON ENVIRO SYSTEMS LLP

No.80, 7th Cross Street, Santhosh Nagar, Puthagaram,
Teachers Colony, Kolathur, Chennai 600 099.
E-mail: lab@avison.in | www.avison.in
☎ +91 44-4860 0077, 3559 2582

An ISO 9001:2015,ISO 45001:2018 Certified Organization

TEST REPORT

Job No.	314/22-23	Report No.	22000001895	Report Date	19.09.2022

Sample Description : **Ambient Air Quality Monitoring**
Customer Name : **M/s. JSS Academy of Higher Education & Research**
Customer Address : Sri Shivarathreeshwara Nagara Mysuru – 570 015, Karnataka,India.

Sample Drawn by : AES
Date of Monitoring : 16.09.2022
Location : **Near Pole Area**
Sample Code : AES2209149
Sample Received On : 17.09.2022

Sampling Method : AES/EN/GEN/SOP/002
Time of Monitoring : 1200 Hrs to 2000 Hrs
Temperature : 28°C
Humidity : 66%
Sample Completed On : 19.09.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Carbon Dioxide as CO_2	AES/EN/AQM/SOP/002	ppm	480	---

For AVISON ENVIRO SYSTEMS LLP

AVISON ENVIRO SYSTEMS LLP CHENNAI 600099

U.A
Verified by

Authorized Signatory

R. VIVEKANANTH
TECHNICAL MANAGER

******End of Report******

Perfection in Service is our motto...

AVISON ENVIRO SYSTEMS LLP

No.80, 7th Cross Street, Santhosh Nagar, Puthagaram,
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☎ +91 44-4860 0077, 3559 2582

An ISO 9001:2015,ISO 45001:2018 Certified Organization

TEST REPORT

Job No.	314/22-23	Report No.	22000001897	Report Date	19.09.2022

Sample Description : **Ambient Air Quality Monitoring**
Customer Name : **M/s. JSS Academy of Higher Education & Research**
Customer Address : Sri Shivarathreeshwara Nagara Mysuru – 570 015, Karnataka,India.

Sample Drawn by : AES
Date of Monitoring : 17.09.2022
Location : **Near Girls Hostel**
Sample Code : AES2209151
Sample Received On : 17.09.2022

Sampling Method : AES/EN/GEN/SOP/002
Time of Monitoring : 0830 Hrs to 1630 Hrs
Temperature : 29°C
Humidity : 69%
Sample Completed On : 19.09.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Carbon Dioxide as CO_2	AES/EN/AQM/SOP/002	ppm	521	---

For AVISON ENVIRO SYSTEMS LLP

AVISON ENVIRO SYSTEMS LLP ★ CHENNAI 600099

Verified by

Authorized Signatory

R. VIVEKANANTH
TECHNICAL MANAGER

******End of Report******

Perfection in Service is our motto...

AVISON ENVIRO SYSTEMS LLP

No.80, 7th Cross Street, Santhosh Nagar, Puthagaram,
Teachers Colony, Kolathur, Chennai 600 099.
E-mail: lab@avison.in | www.avison.in
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An ISO 9001:2015,ISO 45001:2018 Certified Organization

TEST REPORT

Job No.	314/22-23	Report No.	22000001898	Report Date	19.09.2022

Sample Description : **Ambient Air Quality Monitoring**
Customer Name : **M/s. JSS Academy of Higher Education & Research**
Customer Address : Sri Shivarathreeshwara Nagara Mysuru – 570 015, Karnataka,India.

Sample Drawn by : AES
Date of Monitoring : 17.09.2022
Location : **Near Boys Hostel**
Sample Code : AES2209152
Sample Received On : 17.09.2022

Sampling Method : AES/EN/GEN/SOP/002
Time of Monitoring : 0845 Hrs to 1645 Hrs
Temperature : 27°C
Humidity : 68%
Sample Completed On : 19.09.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Carbon Dioxide as CO_2	AES/EN/AQM/SOP/002	ppm	508	---

For AVISON ENVIRO SYSTEMS LLP

AVISON ENVIRO SYSTEMS LLP ★ CHENNAI 600099

R. V. A

U.A
Verified by

Authorized Signatory

R. VIVEKANANTH
TECHNICAL MANAGER

******End of Report******

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TC-5074

An ISO 9001:2015,ISO 45001:2018 Certified Organization

TEST REPORT

Job No.	314/22-23	Report No.	TC507422000001896F	Report Date	19.09.2022

Sample Description : **Ambient Air Quality Monitoring**
Customer Name : **M/s. JSS Academy of Higher Education & Research**
Customer Address : Sri Shivarathreeshwara Nagara Mysuru – 570 015, Karnataka,India.

Sample Drawn by : AES
Date of Monitoring : 16.09.2022
Location : **Near Food Court Area**
Sample Code : AES2209150
Sample Received On : 17.09.2022

Sampling Method : AES/EN/GEN/SOP/002
Time of Monitoring : 1215 Hrs to 2015 Hrs
Temperature :28°C
Humidity : 67%
Sample Completed On : 19.09.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	IS:5182 (Part-24)2019	$\mu g/m^3$	BDL (DL :10.0)	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	$\mu g/m^3$	25.0	100
3.	Sulphur Dioxide as SO_2	IS:5182 (Part-2)2001	$\mu g/m^3$	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NOX	IS:5182 (Part-6)2006	$\mu g/m^3$	15.1	80
5.	Carbon Monoxide as CO	AES/EN/AQM/SOP/006	mg/m^3	BDL (DL:1.15)	4.0
6.	Ozone as O_3	IS:5182(Part-9)1974	$\mu g/m^3$	BDL (DL :20.0)	180
7.	Ammonia as NH_3	IS:5182(Part-25)2018	$\mu g/m^3$	BDL (DL :20.0)	400
8.	Lead as Pb	IS:5182 (Part-22)2004	$\mu g/m^3$	BDL (DL:0.0001)	1.0
9.	Arsenic as As	USEPA Compendium Method IO 3.4:1999	ng/m^3	BDL (DL :0.1)	6.0
10.	Nickel as Ni	USEPA Compendium Method IO-3.4:1999	ng/m^3	BDL (DL :5.0)	20
11.	Benzo(α) Pyrene Bap	IS:5182 (Part-12)2004	ng/m^3	BDL (DL :0.02)	1.0
12.	Benzene as C6H6	IS:5182 (Part-11)2006	$\mu g/m^3$	BDL (DL :0.5)	5.0

For AVISON ENVIRO SYSTEMS LLP

AVISON ENVIRO SYSTEMS LLP CHENNAI 600099

Verified by

Authorized Signatory

R. VIVEKANANTH
TECHNICAL MANAGER

Note: BDL – Below Detection Limit
DL – Detection Limit

******End of Report******

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TC-5074

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TEST REPORT

Job No.	314/22-23	Report No.	TC507422000001895F	Report Date	19.09.2022

Sample Description : **Ambient Air Quality Monitoring**
Customer Name : **M/s. JSS Academy of Higher Education & Research**
Customer Address : Sri Shivarathreeshwara Nagara Mysuru – 570 015, Karnataka,India.

Sample Drawn by : AES
Date of Monitoring : 16.09.2022
Location : **Near Pole Area**
Sample Code : AES2209149
Sample Received On : 17.09.2022

Sampling Method : AES/EN/GEN/SOP/002
Time of Monitoring : 1200 Hrs to 2000 Hrs
Temperature : 28°C
Humidity : 66%
Sample Completed On : 19.09.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	IS:5182 (Part-24)2019	$\mu g/m^3$	BDL (DL :10.0)	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	$\mu g/m^3$	21.2	100
3.	Sulphur Dioxide as SO_2	IS:5182 (Part-2)2001	$\mu g/m^3$	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NOX	IS:5182 (Part-6)2006	$\mu g/m^3$	16.7	80
5.	Carbon Monoxide as CO	AES/EN/AQM/SOP/006	mg/m^3	BDL (DL:1.15)	4.0
6.	Ozone as O_3	IS:5182(Part-9)1974	$\mu g/m^3$	BDL (DL :20.0)	180
7.	Ammonia as NH_3	IS:5182(Part-25)2018	$\mu g/m^3$	BDL (DL :20.0)	400
8.	Lead as Pb	IS:5182 (Part-22)2004	$\mu g/m^3$	BDL (DL:0.001)	1.0
9.	Arsenic as As	USEPA Compendium Method IO 3.4:1999	ng/m^3	BDL (DL :0.1)	6.0
10.	Nickel as Ni	USEPA Compendium Method IO-3.4:1999	ng/m^3	BDL (DL :5.0)	20
11.	Benzo(a) Pyrene Bap	IS:5182 (Part-12)2004	ng/m^3	BDL (DL :0.02)	1.0
12.	Benzene as C6H6	IS:5182 (Part-11)2006	$\mu g/m^3$	BDL (DL :0.5)	5.0

For AVISON ENVIRO SYSTEMS LLP

AVISON ENVIRO SYSTEMS LLP CHENNAI 600099

Verified by

Authorized Signatory

Note: BDL – Below Detection Limit
DL – Detection Limit

****End of Report****

R. VIVEKANANTH
TECHNICAL MANAGER

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TEST REPORT

Job No.	314/22-23	Report No.	TC507422000001897F	Report Date	19.09.2022

Sample Description : **Ambient Air Quality Monitoring**
Customer Name : **M/s. JSS Academy of Higher Education & Research**
Customer Address : Sri Shivarathreeshwara Nagara Mysuru – 570 015, Karnataka,India.

Sample Drawn by : AES
Date of Monitoring : 17.09.2022
Location : **Near Girls Hostel**
Sample Code : AES2209151
Sample Received On : 17.09.2022

Sampling Method : AES/EN/GEN/SOP/002
Time of Monitoring : 0830 Hrs to 1630 Hrs
Temperature : 29°C
Humidity : 69%
Sample Completed On : 19.09.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	IS:5182 (Part-24)2019	$\mu g/m^3$	BDL (DL :10.0)	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	$\mu g/m^3$	19.2	100
3.	Sulphur Dioxide as SO_2	IS:5182 (Part-2)2001	$\mu g/m^3$	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NOX	IS:5182 (Part-6)2006	$\mu g/m^3$	12.9	80
5.	Carbon Monoxide as CO	AES/EN/AQM/SOP/006	mg/m^3	BDL (DL:1.15)	4.0
6.	Ozone as O_3	IS:5182(Part-9)1974	$\mu g/m^3$	BDL (DL :20.0)	180
7.	Ammonia as NH_3	IS:5182(Part-25)2018	$\mu g/m^3$	BDL (DL :20.0)	400
8.	Lead as Pb	IS:5182 (Part-22)2004	$\mu g/m^3$	BDL (DL:0.001)	1.0
9.	Arsenic as As	USEPA Compendium Method IO 3.4:1999	ng/m^3	BDL (DL :0.1)	6.0
10.	Nickel as Ni	USEPA Compendium Method IO-3.4:1999	ng/m^3	BDL (DL :5.0)	20
11.	Benzo(α) Pyrene Bap	IS:5182 (Part-12)2004	ng/m^3	BDL (DL :0.02)	1.0
12.	Benzene as C6H6	IS:5182 (Part-11)2006	$\mu g/m^3$	BDL (DL :0.5)	5.0

For AVISON ENVIRO SYSTEMS LLP

AVISON ENVIRO SYSTEMS LLP CHENNAI 600099

Verified by

Authorized Signatory

Note: BDL – Below Detection Limit
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****End of Report****

R. VIVEKANANTH
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TEST REPORT

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Sample Description : **Ambient Air Quality Monitoring**
Customer Name : **M/s. JSS Academy of Higher Education & Research**
Customer Address : Sri Shivarathreeshwara Nagara Mysuru – 570 015, Karnataka,India.

Sample Drawn by : AES
Date of Monitoring : 17.09.2022
Location : **Near Boys Hostel**
Sample Code : AES2209152
Sample Received On : 17.09.2022

Sampling Method : AES/EN/GEN/SOP/002
Time of Monitoring : 0845 Hrs to 1645 Hrs
Temperature : 27°C
Humidity : 68%
Sample Completed On : 19.09.2022

S.No	Description	Method of Reference	Units	Results	Max Limits (CPCB)
1.	Particulate Matter 2.5	IS:5182 (Part-24)2019	$\mu g/m^3$	BDL (DL :10.0)	60
2.	Particulate Matter 10	IS:5182 (Part-23)2006	$\mu g/m^3$	18.7	100
3.	Sulphur Dioxide as SO_2	IS:5182 (Part-2)2001	$\mu g/m^3$	BDL (DL :5.0)	80
4.	Nitrogen Dioxide as NOX	IS:5182 (Part-6)2006	$\mu g/m^3$	13.6	80
5.	Carbon Monoxide as CO	AES/EN/AQM/SOP/006	mg/m^3	BDL (DL:1.15)	4.0
6.	Ozone as O_3	IS:5182(Part-9)1974	$\mu g/m^3$	BDL (DL :20.0)	180
7.	Ammonia as NH_3	IS:5182(Part-25)2018	$\mu g/m^3$	BDL (DL :20.0)	400
8.	Lead as Pb	IS:5182 (Part-22)2004	$\mu g/m^3$	BDL (DL:0.001)	1.0
9.	Arsenic as As	USEPA Compendium Method IO 3.4:1999	ng/m^3	BDL (DL :0.1)	6.0
10.	Nickel as Ni	USEPA Compendium Method IO-3.4:1999	ng/m^3	BDL (DL :5.0)	20
11.	Benzo(α) Pyrene Bap	IS:5182 (Part-12)2004	ng/m^3	BDL (DL :0.02)	1.0
12.	Benzene as C6H6	IS:5182 (Part-11)2006	$\mu g/m^3$	BDL (DL :0.5)	5.0

For AVISON ENVIRO SYSTEMS LLP

AVISON ENVIRO SYSTEMS LLP CHENNAI 600099

Verified by

Authorized Signatory

R. VIVEKANANTH
TECHNICAL MANAGER

Note: BDL – Below Detection Limit
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******End of Report******

Perfection in Service is our motto...

ENERGY CONSERVATION MEASURES

- Replace all incandescent bulb / regular old tube light to latest energy conserving LED lights.
- Signages at appropriate place (on switch boards) as part of the 'Energy Awareness Campaign' to remind everyone to conserve energy by turning off the lights.
- Small pamphlets emphasizing the importance of energy saving and circulate amongst staff and students.
- Install Solar water heaters, Air source Water for water heating at colleges, hostels, and Guest houses.
- Encourage natural aeration and lighting
- Encourage use of alternative energy generating mechanism like SRTP, ….
- Encourage use of R32 gas with energy efficiency Air conditions wherever essential.

ELECTRICITY – UNDERGROUND CABLE WORKS COMPLETED





Underground Cable works and power backup

POWER / ELECTRICITY (Power back up: 24 x 7)

JSSAHE&R has created the facility of providing 24 x 7 power / electric supply either in the form of power connection through CHESCOM / TNEB and in case of failure in power supply, generators are installed in all the campuses for providing uninterrupted electric / power supply.

Campus	RR No.	Contracted Demand in MD KVA	Meter Constant	Date of Connection / Service	Generator
JSSMI Campus	HT – 166	450 KVA	2500	May 1995	2 dedicated generators of 500 KVA & 380 KVA capacity is provided with auto switch over facility
JSSCPM Campus	HT – 384	150 KVA	750	May 1995	160 KVA
JSSCPO Campus	HT - 107	150 KVA	150	May 1995	250 KVA capacity is provided

Solar Projects

At the Institution level, solar panels have been installed which has considerably brought down the power consumption by at least 50% compared to earlier years. In order to set an example, the institution shares some of the electricity generated by solar energy to the local electricity board. Proper signages have been installed advising the users to always switch off the electricity when not in use.

Most of the lights have been replaced by energy saving bulbs and LEDs to save power. Continuous monitoring and maintenance of Air Conditioning, generators and other power appliances are being carried out to ensure that no power is being wasted under any circumstances

Emergency Power Backup & Smart Micro Grids


INCOMING FROM 500 KVA DG


POWERICA
Cummins
POWERICA

Summary of Power Generation with the aid of Solar Panels (Period from April 2021 to March 2022)

Medical College & Dental College

(RR NO : HT - 166 & Contract Demand 450 KVA)

1	2				3		4		5	6
Month	KEB				Solar units generated		Total= (KEB & Solar)		KEB Rate	Saving
	A	B	C	D	C	D	A	B		
	Import Units KEB	Export Units from Solar	Actual Consumption of Units (2A-2B)	Amounts	Total Units	Amounts	Units (2C+3C)	Amounts (2D+3D)		
Apr-21	93750	8550	85200	831847	69889	433312	155089	1265159	1454095	188936
May-21	48800	28900	19900	258873	61159	379186	81059	638058.8	795512	157453
Jun-21	44875	23025	21850	268972	59765	370543	81615	639515	785933	146418
Jul-21	74800	9150	65650	557914	53573	332153	119223	890066.6	1021853	131786.4
Aug-21	102625	4425	98200	926964	51496	319275	149696	1246239.2	1386527	140287.8
Sep-21	102375	2725	99650	977371	49443	306547	149093	1283917.6	1428847	144929.4
Oct-21	96250	6825	89425	880961	55077	341477	144502	1222438.4	1434430	211991.6
Nov-21	85600	4900	80700	803976	40971	254020	121671	1057996.2	1174933	116936.8
Dec-21	81925	9225	72700	737750	60812	377034	133512	1114784.4	1292585	177800.6
Jan-22	77675	11950	65725	675788	63498	393688	129223	1069475.6	1252614	183138.1
Feb-22	69675	10500	59175	617601	64668	400942	123843	1018542.6	1202475	183932.2
Mar-22	97850	6175	91675	906315	70094	434583	161769	1340897.8	1555926	215028.4
Total	**976200**	**126350**	**849850**	**8444332**	**700445**	**4342759**	**1550295**	**12787091**	**14785730**	**1998639**

JSS College of Pharmacy, Mysuru

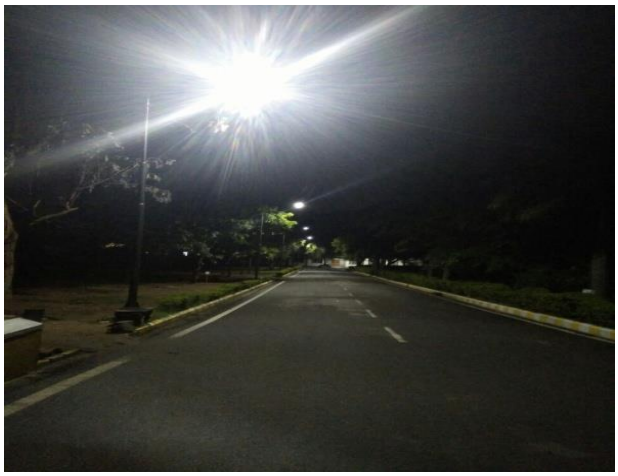
(RR NO : HT - 384 & Contract Demand 150 KVA)

1	2				3		4		5	6
Month	KEB				Solar units generated		Total= (KEB & Solar)		KEB Rate	Saving
	A	B	C	D	A	B	A	B		
	Import Units KEB	Export Units from Solar	Actual Consumption of Units (2A-2B)	Amounts	Units	Amounts	Units (2C+3A)	Amounts (2D+3B)		
Apr-21	18547.5	10492.5	8055.00	98839	19474	120738.8	27529.0	219577.8	269713	50135
May-21	6495	11662.5	-5167.50	11845	16662	89660	11494.5	101505	129023	27518
Jun-21	5617.5	10320	-4702.50	13644	16039	87027	11336.5	100671	127124	26453
Jul-21	9862.5	5955	3907.50	40057	14470	89714	18377.5	129771	163104	33333
Aug-21	22297.5	2400	19897.50	199918	14075	87265	33972.5	287183	319605	32422
Sep-21	24352.5	2212.5	22140.00	227115	15501	96106.2	37641.0	323221.2	362845	39624
Oct-21	24052.5	3142.5	20910.00	215218	15542	96360.4	36452.0	311578.4	352354	40776
Nov-21	25680	1582.5	24097.50	243344	11183	69334.6	35280.5	312678.6	342017	29339
Dec-21	21765	3885	17880.00	189557	15723	97482.6	33603.0	287039.6	329232	42193
Jan-22	12015	8317.5	3697.50	63567	17372	107706.4	21069.5	171273.4	288959	117686
Feb-22	19792.50	4357.5	15435.00	167837	17991	111544.2	33426.0	279381.2	327660	48279
Mar-22	28665	2377.5	26287.50	264245	18001	111606.2	44288.5	375851.2	424157	48306
Total	**219142.5**	**66705**	**152437.5**	**1735186**	**192033**	**1164545.4**	**344470.5**	**2899731.4**	**3435794**	**536062.59**

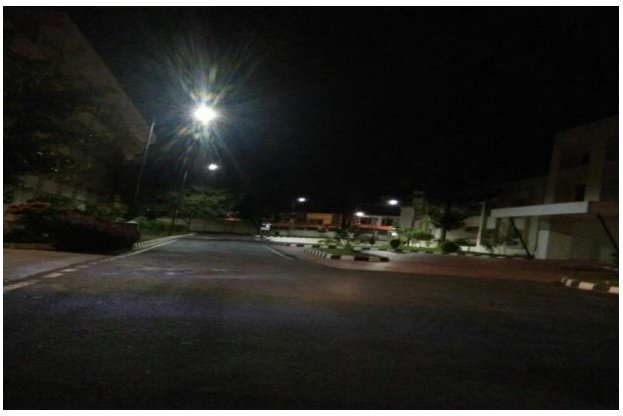
Proper Lighting

All the institutions campus of JSSAHE&R at Mysuru and Ooty are provided with LED lightings to promote security in the campus and to increase the quality of life by

artificially extending the hours in which it is light and for the safety of hostel students.







JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
(DEEMED TO BE UNIVERSITY) MYSURU

JSS Academy of Higher Education & Research
(Deemed to be University)
Accredited 'A+' Grade by NAAC
Sri Shivarathreeshwara Nagara
Mysuru – 570 015, Karnataka, INDIA

JSS Academy of Higher Education & Research

Mysuru

Waste disposal Policy

"Reduce – Recycle – Reuse" is a social responsibility, let us work together for a better tomorrow

Waste disposal Policy Statement

This policy document contains information on the procedure being followed at the JSS Academia of HigherEducation & Research and its constituent colleges and departments. The document is prepared based on the Central Pollution Control Board, Govt of India and Karnataka State Pollution Control Board guidelines. The document will undergo revision as and when the central pollution control board makes amendments / changes and also as per the academia documentation policy. Sharing or copying the information in written, photocopy or any other mode without prior consent of the academia is discouraged.

Key personnel in waste disposal management

S No	Waste Disposal Activity	Function	Key Personnel	Contact details
1	Solid waste	Supervision of Collection and disposal	Mr Prashanth	9980613010
2	Green waste	Supervision of Collection and disposal	Mr Shivamanju	9886260635
3	E-waste	Supervision of Collection and disposal	Dr Ravindra	8105278665
4	Radioactive waste	Supervision of Collection and disposal	Dr Mahesh KP	9845189703
5	Biomedical waste	**Supervision of collection and disposal of Biomedical waste disposal** ▪ Collection ▪ Segregation at source ▪ Packing and Transport to central storage area ▪ Storage and Handover to CBMWTF	Dr Saravana Babu C	9042222277
		Disposal	Mr Umesh	9900970844
		Updating of biomedical waste register		
		Updating and Display of reports on website		

JSS Academy of Higher Education & Research

JSS Academy of Higher Education & Research (JSS AHER), formerly known as JSS University, is a deemed to be university located in Mysore, Karnataka. It was established in the year 2008 under Section 3 of the UGC Act 1956. JSS AHER is recognized by MOE and accredited with A^+ Grade (CGPA of 3.48 out of 4) by National Assessment and Accreditation Council (NAAC) during re-accreditation in 2018. National Institutional Ranking Framework (NIRF) has listed JSSAHER at 37 ranks in the Universities Category. JSS AHER has the credit of being the top YOUNG University in the Karnataka State Universities Rating Framework (KSURF).

JSS AHER focuses on Medical and health-sciences studies through its constituent colleges, JSS Medical College, JSS Dental College & Hospital, JSS College of Pharmacy, Mysuru and JSS College of Pharmacy in Ootacamund, School of Life Science, Mysuru, School of Life Science, Ooty, School of Public Health. The other university departments include Department of Health System Management Studies, Department of Nutrition and Dietetics, Department of Yoga, Department of Environmental Sciences, Department of Microbiology and Department of Biotechnology and Bioinformatics.

WASTE MANAGEMENT POLICY

1, Scope

This document provides information on the procedure being followed on waste management in the Deemed to be University

Applies to

All the teaching and non-teaching faculties, contractors and housekeeping staff

2. Preamble

Definitions

"Authorization" means permission granted by the Deemed to be University for the generation, collection, reception, storage, transportation, treatment, processing, disposal or any other form of handling of bio-medical waste in accordance with the rules and guidelines issued by the Central Pollution Control Board, Govt of India.

"Authorized person" means a person authorized by the Deemed to be University to generate, collect, receive, store, transport, treat, process, dispose or handle bio-medical waste in accordance with the rules and guidelines issued by the Central Pollution Control Board, Govt of India

"Biological" means any preparation made from organisms or micro-organisms or product of metabolism and biochemical reactions intended for use in the diagnosis, immunization or the treatment of human beings or animals or in research activities

"Bio-medical waste" means the wastes generated during the diagnosis, treatment orimmunization of human beings or animals or research activities

"Bio-Medical Waste Treatment and Disposal Facility" means the facility wherein treatment, disposal of bio-medical waste or processes incidental to such treatment and disposal is carried out, and includes common bio-medical waste treatment facilities

"Handling" in relation to bio-medical waste includes the generation, sorting, segregation, collection, packaging, storage, loading, transportation, unloading, treatment, destruction, transfer, disposal of waste.

"Healthcare facility" means a place where diagnosis, treatment or immunization of human beings is provided irrespective of type and size of health treatment system, and research activity

"Occupier" means a person having day to day administrative control over the clinic / lab generating bio-medical waste, which includes a hospital, mortuary, anatomical wastes, pathological laboratory, animal house, blood bank, irrespective of their system of medicine

"Operator of a common bio-medical waste treatment facility" means a person who owns or controls a Common Bio-medical Waste Treatment Facility (CBWTF) for the collection, reception, storage, transport, treatment, disposal or any other form of handling of bio-medical waste.

"Prescribed authority" mean the State Pollution Control Board in respect of State and Pollution Control Committee in respect of Union Territory. In Karnataka it is Karnataka State Pollution Control Board (KSPCB)

"Point of Generation" means the location where wastes initially generate and accumulate.

"Storage" means the holding of biomedical waste for a temporary period at the end of which the bio-medical waste is treated or disposed.

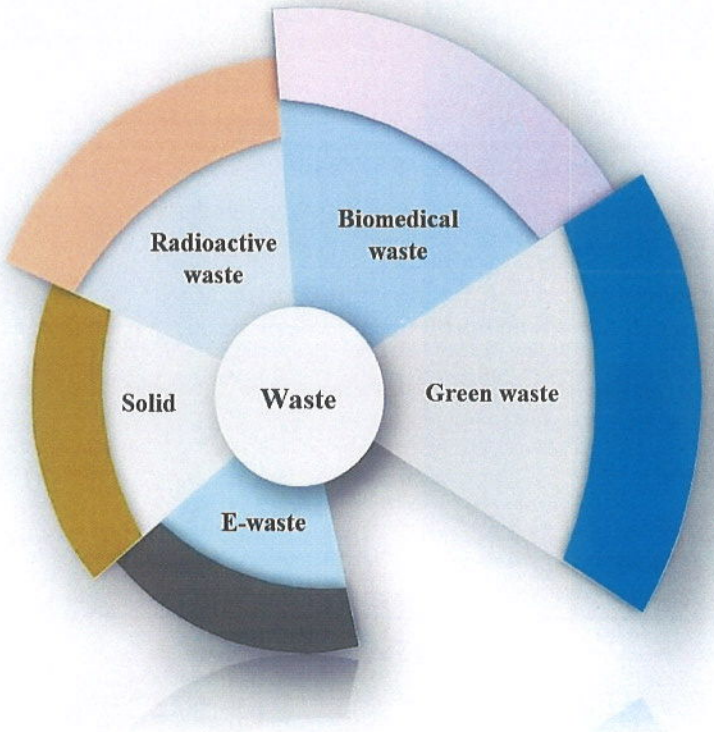
"Treatment" means any method, technique, or process, including neutralization, designed to change the physical, chemical, or biological characteristics or composition of any hazardous waste

"Waste" any substance which is discarded after the primary use, or it is worthless, defective, and of no use

Policy

Classification of waste generated from the University, hospital and laboratories:

- **General solid wastes**: Domestic garbage, food and food packing materials, papers and cardboards, construction and demolition debris, sanitation residues, packaging materials, usually disposed through municipality
- **Bio-medical wastes**: Solid or liquid wastes including containers, intermediate or end products generated during diagnosis, treatment & research activities of medical sciences.
- **Green waste**: Wastes generated from gardens and herbal gardens activities. These substances are mostly biodegradable.
- **Radioactive wastes**: Waste containing radioactive materials. Usually these are byproducts of nuclear processes. e.g. radio-isotopes, chemical sludge etc.
- **E-wastes**: Electronic wastes generated from electrical or electronic devices. Electronic scrap components, such as CRTs, may contain contaminants such as Pb, Cd, Be or brominated flame retardants.



3. Procedure

General Wastes

It constitutes all the waste other than bio-medical wastes and which has not been in contact with any hazardous or infectious, chemical or biological secretions and does not includes any waste sharps. This waste consists of mainly:

1) Newspaper, paper and card boxes (dry waste)
2) Plastic water bottles (dry waste)
3) Aluminum cans of soft drinks (dry waste)
4) Packaging materials (dry waste)
5) Food Containers after emptying residual food (dry waste)
6) Organic / Bio-degradable waste - mostly food waste (wet waste)
7) Construction and Demolition wastes

These general wastes are further classified as dry wastes and wet wastes and should are collected separately. The quantity of such waste is around 80 % to 90 % of total waste generated from the University, hospital and laboratories.

Food wastes

Food wastes from the hostels are collected in closed containers in respective collection area and are taken to piggery to feed the pigs. Food waste is disposal ensured through third party contract. Pilot trials under process to convert food waste in to organic manure and biogas

Green waste

The dried / wet plants materials such as leaves, stem, trunk, roots, flowers etc collected or cut or shred from the garden. Approximately 20 tonnes per year green waste is generated from the campus. The collected materials are processed in pits and approximately 12 tonnes of manure are prepared from the green wastes which are used for gardening purpose spread over in different locations of the campus.

Construction and Demolition waste

As part of infrastructure development in the Deemed to be University, as and when renovation or new construction are planned, the solid debris generated are cleared from the campus through the contractors taking-up the construction work. These wastes are disposed through trucks and used as landfill (approximately 5 acre) at Belavatha site located 1 km from the main campus

E-waste

Electronic wastes – computers, televisions, circuit boards, hard disks, printers and copiers, used batteries, which are not covered under biomedical wastes are disposed as and when such wastes are generated as per the provisions laid down under E-Waste (Management) Rules, 2016, Batteries (Management & Handling) Rules, 2001, and Rules/guidelines under Atomic Energy Act, 1962 respectively. This is outsourced through third part contract.

Radioactive isotopes

Dept of Radiology, JSS Dental College and Hospital, is practising a safe way of radiology waste disposal as required by the Bhabha Atomic Research Centre (BARC), Govt of India, since decades. Following are the radiology wastes generated at JSSDC & H

1. Fixing Solution.
2. Lead foils.
3. Radiographs (X- Ray Hard copies).
4. Developer Solution.

Depleted Fixing solution is given to a private agency party (Amaron, Pit stop) to recycles and extract silver from it. The same is followed in the case of x-ray films once, which were collected for so many years excluding the last 10 years record. Lead foils are collected over a period of time and are given to battery manufacturers for recycling. Depleted Developing solution is with excessive water and disposed in drains as suggested by BARC.

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"Bio-medical waste" means waste that are generated during diagnosis, treatment or immunization of human beings or animals or research activities or in the production or testing of biologicals. Medical waste includes all the waste generated from the Health Care Facility which can have adverse effects onthe human health or to the environment in general if not disposed properly. In general, the quantity of biomedical waste will be 5% to 10% of total waste generated from the campus, hospitals and laboratories. These wastes consist of the materials originated patient or animals blood, secretions, infected parts, biological liquids such as chemicals, medical supplies, medicines, lab discharge, sharps metallic and glassware, plastics etc.

Bio Medical Waste Management Rules, 2016 categorizes the bio-medical waste generated from the health care facility into four major categories based on the segregation pathway and colour code:

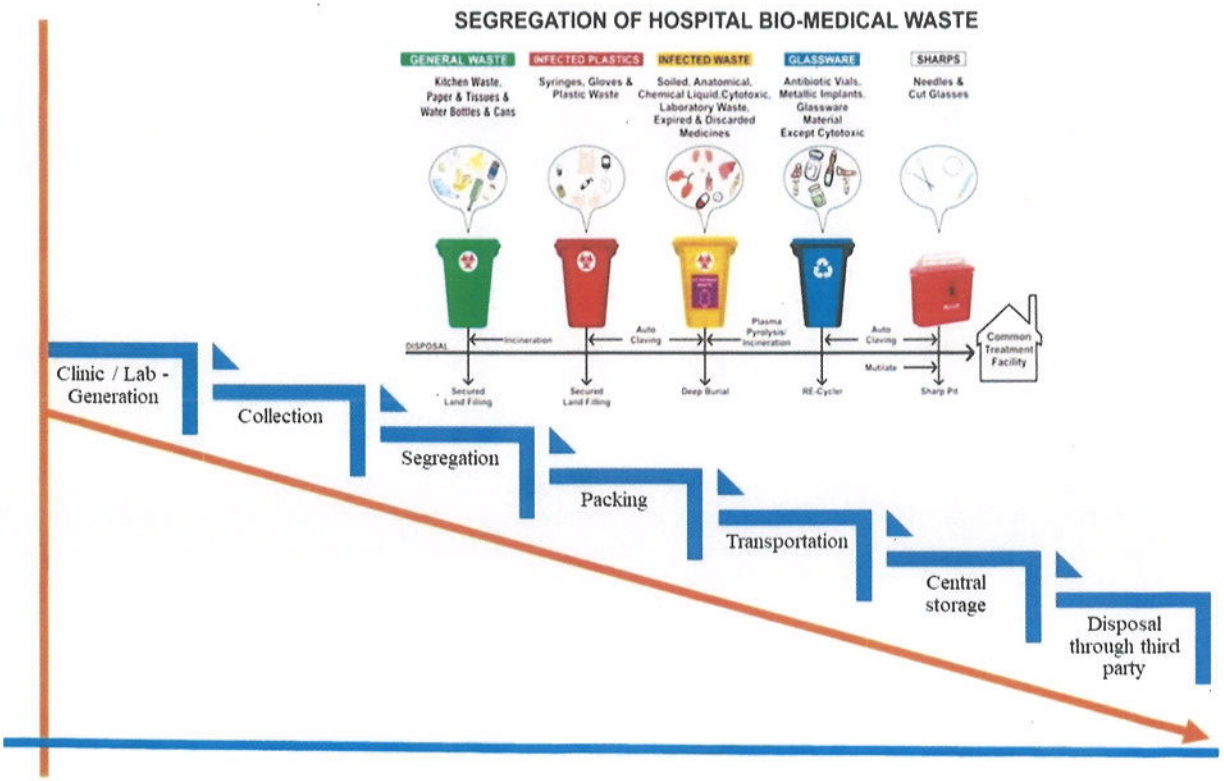
1. **Yellow Category**
2. **Red Category**
3. **White Category**
4. **Blue Category**
5. **Black Category**

S.No	Category	Type of waste	Color & Type of container
1	YELLOW	➢ Human Anatomical Waste ➢ Animal Anatomical Waste ➢ Soiled Waste ➢ Discarded or Expired Medicine ➢ Microbiology, Biotechnology and other clinical laboratory waste ➢ Chemical Waste ➢ Chemical Liquid Waste	Yellow colored Non-Chlorinated Plastic Bags (having thickness equal to more than 50 μ) or containers  Note (i) Infected secretions, aspired body fluids etc from laboratory are disinfected before mixing with another wastewater (ii) Liquid chemical wastes are pre-treated/ neutralised before mixing with other wastewater from hospital.
2	RED	➢ Contaminated Waste (Recyclable)	Red Colored Non-Chlorinated Plastic Bags (having thickness equal to more) 
3	WHITE	➢ Waste Sharps including metals	White Colored translucent, punctureproof, leak proof, Temper Proofcontainers
4	BLUE	➢ Glassware ➢ Metallic Body Implants	Cardboard boxes with blue colored marking or blue colored puncture proof, temper proof containers

BIOMEDICAL WASTE SEGREGATION

Biomedical waste generated from the hospital and laboratories are segregated at the point of generation as per the colour coding stipulated under Schedule I of BMWM Rules, 2016.

- Personnel Protective Equipment are provided to the bio-medical waste handling staff.
- Waste are segregated at the point of generation of source and not in later stages. "Point of Generation" means the location where wastes initially generate, accumulate and is under the control of doctor / nursing staff / lab etc. who is providing treatment to the patient / animals and in the process generating bio-medical waste.
- Posters / placards for bio-medical waste segregation are installed at the point of generation.
- Adequate numbers of colour coded bins / containers or bags are available at the point of generation of bio-medical waste.



BIO MEDICAL WASTE COLLECTION

Time of Collection

- Bio-medical waste should be collected on daily basis from each ward of the hospital / lab at a fixed time. There can be multiple collections during the day. All the biomedical waste should collected, segregated, packed and sent to central biomedical waste storage every evening before 4.30 pm
- Clinics and labs should ensure collection, transportation, and disposal of bio-medical waste within 48 hours.
- Bio-medical waste bags and sharps containers should be filled to no more than three quarters full. Once this level is reached, the bags are tied or sealed with plastic tags.
- Replacement bags or containers are available at each waste-collection location so that full ones can immediately be replaced.
- All the bags and containers to be transported to CBWTF are labeled with following details:
    - Date of Generation
    - Type of waste category
    - Dept name
    - Contact Person Name and Phone Number

Interim Storage

Interim storage of biomedical waste is discouraged in the clinics / labs

- If waste is needed to be stored on interim basis in the departments it is stored in the dirty utility/sections.
- In absence of dirty utilities/ sections such BMW must be stored in designated place away
- No waste is in patient care area / working area and procedure areas

General waste should not be collected at the same time or in the same trolley in which bio-medical waste is collected.

Labeling

All the bags/ containers/ bins used for collection and storage of bio-medical waste, are labelled with the warning Symbol of Bio Hazard or Cytotoxic Hazard as the case may be as per the type of waste in accordance with the BMWM Rules, 2016.

Bio-Hazard Label

Cyto-Toxic label

In-house Transportation of Biomedical waste

Transportation Trolleys & Carts

In-house transportation of biomedical waste from site of waste generation/ interim storage to central waste collection, with in the premises is done in closed trolleys/containers fitted with wheels for easy maneuverability. Such trolleys or carts are dedicated only for the purpose of biomedical waste transportation.

Waste Collection Cart

Waste Transport Trolley for a Particular category of waste

Route of transportation is planned in such a way that:

- Transportation does not occur through traffic and high-risk areas
- Supplies and waste are transported through separate routes
- Central waste collection area is accessed easily through the route adopted

Central waste collection area – for temporary storage

A central collection center situated within its premises for storage of bio-medical waste, till the waste is transported for treatment and disposal to CBMWTF. Center storage is manned and is under lock and key under the responsibility of a designated person. Central collection area has proper ventilation through the use of exhaust fan, hand wash area, weighing balance etc.

- Location of central waste collection facility is away from the public/visitors' access.
- The space allocated for collection is sufficient for the quantity of waste generated from premises
- Space is sufficient to store at least two days generation of waste
- Center has a concrete ramp for easy transportation of waste collection trolleys
- Flooring is of tiles with slope so as to easy the cleaning of the area
- Center has good ventilation through the use of exhaust fan and by use of wire meshes window
- Central storage station ensured for fire hazard like installation of fire extinguisher, smoke detector etc.
- Water supply is provided for cleaning and washing of this station containers. The drainage from the storage and washing area is routed to the effluent treatment plant (ETP).
- Sign boards indicating relevant details such as contact person and the telephone number is provided.
- It is ensured that no general waste is stored in the central waste collection area.
- Healthcare facilities need to maintain the record of waste generated and handed over to the authorized recycles.
- Centre is protected from stray animals in the academia and has installed cattle traps at main gate
- Pest control program is in place

Colour codes for Biomedical waste collection and Packing

				
▪ Human and animal anatomical wastes ▪ Soiled wastes, ▪ Discarded or expired medicines ▪ Chemical wastes, ▪ Blood and	▪ Contaminated waste (recyclable)	▪ Sharps including metals ▪ Needles ▪ Scalpels ▪ Blades	▪ Broken and contaminated glass including vials and ampoules ▪ Metallic body implants	▪ Food items ▪ Papers / paper plates, ▪ Water bottles, etc

References

- https://kspcb.gov.in/aboute.html (Bio-Medical Waste Management Rules, 2016)
- https://kspcb.gov.in/aboute.html (Construction & Demolition Waste Management Rules, 2016)
- https://kspcb.gov.in/aboute.html (E-waste Management Rules 2016)
- https://kspcb.gov.in/aboute.html (Solid Waste Management Rules, 2016)
- http://www.barc.gov.in/randd/rwm.html (Bhabha Atomic Research Centre)

4. Authority

The Vice-Chancellor, Registrar & Deputy Registrar of JSS Academy of Higher Education & Research and Principals of the constituent colleges and Heads of the departments holds delegated authority and is responsible for all aspects of this policy.

5. Date of implementation:

This policy will come into immediate effect from 01.01.2022

6. Date of revision:

01.01.2024

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