



JSS Academy of Higher Education & Research (JSS AHER),
Mysore, India

Compendium

SDG Goal 12



GOAL 12

RESPONSIBLE CONSUMPTION AND PRODUCTION

1. Introduction to the goal:

Our planet has provided us with an abundance of natural resources. But we have not utilized them responsibly and currently consume far beyond what our planet can provide. We must learn how to use and produce in sustainable ways that will reverse the harm that we have inflicted on the planet.

It consists of Implement the 10-year framework of programmes on sustainable consumption and production, all countries taking action, with developed countries taking the lead, taking into account the development and capabilities of developing countries. Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle. Promote public procurement practices that are sustainable, in accordance with national policies and priorities.

Achieving economic growth and sustainable development requires that we urgently reduce our ecological footprint by changing the way we produce and consume goods and resources. Agriculture is the biggest user of water worldwide, and irrigation now claims close to 70 percent of all freshwater for human use. The efficient management of our shared natural resources, and the way we dispose of toxic waste and pollutants, are important targets to achieve this goal. Encouraging industries, businesses and consumers to recycle and reduce waste is equally important, as is supporting developing countries to move towards more sustainable patterns of consumption by 2030.

A large share of the world population is still consuming far too little to meet even their basic needs. Halving the per capita of global food waste at the retailer and consumer levels is also important for creating more efficient production and supply chains. This can help with food security, and shift us towards a more resource efficient economy.

2. A glance at efforts:

- Abiding by JSS AHER Green policy
- Ensuring greenery in the college and hospital campus
- Rain water harvesting
- Signboards on efficient use of water and energy
- Kitchen garden in the campus
- Scientific disposal of biomedical waste from all health centers
- Regular training of health care workers and students on biomedical waste management

3. Green Policy and Green Campus

Our JSS AHER has its Green Policy which emphasizes on the following 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 Karnataka State Pollution control Board
- Energy conservation strategies – For e.g. use of CFL/LED lights and 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
- The HEI actively organizes Swachh Bharat Abhiyan and creates awareness and consciousness amongst students.
- Provision for natural light in all its buildings

The Institution also has included a subject Environmental Sciences in all courses as stipulated by UGC and organizes Environment Day and Water Day. The Institution believes in preserving traditional medicine and has established medicinal plants garden and promotes eco-friendly cultivation practices by organizing medicinal plants exhibition in JSS Urban Health Centre. 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 university 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.

- 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 is subject to a wide variety of contaminants and every effort is made to keep these catchments clean.

The University supports green practices in all its initiatives. It has well-defined policies for its sustainable green practices which include its energy conservation policy, water conservation policy, transport policy, the SMART and Green campus policy and many such policies and practices that inculcate the importance of conserving the present for the future generations. Towards the same some of the practices include - Students, staff using Bicycles – the staff and students are encouraged to use bicycles on its campuses and students residing in the hostels of the university are discouraged from having automobiles and live on campus. Battery operated vehicles too are available on the campus to help students transport their belongings. Public Transport – the university maintains a fleet of buses that are available to the students

for travel between campuses and public places at fixed timings. Pedestrian friendly roads – all roads are paved and landscaped and are pedestrian friendly Plastic-free campus – All its campuses are plastic free Paperless office – the utilization of papers for administrative purposes is minimized and ecommunications are encouraged. Green landscaping with trees and plants – all the campuses are beautifully landscaped which have won appreciation, admiration, and awards for the aesthetic and green environment of its campuses. The Green campus committee ensures that the above principles are strictly complied with and provides feedback to the university on its efforts and the future directions.



Greenery in the campus





Greenery in the campus



Sign boards for environmental protection



Sign boards for environmental protection and energy conservation



Kitchen garden in the hostel

4. Biomedical waste management in Hospital

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 Non clinical staff.
- Document of BMW management approval from state Pollution control available with management

BIOMEDICAL WASTE MANAGEMENT

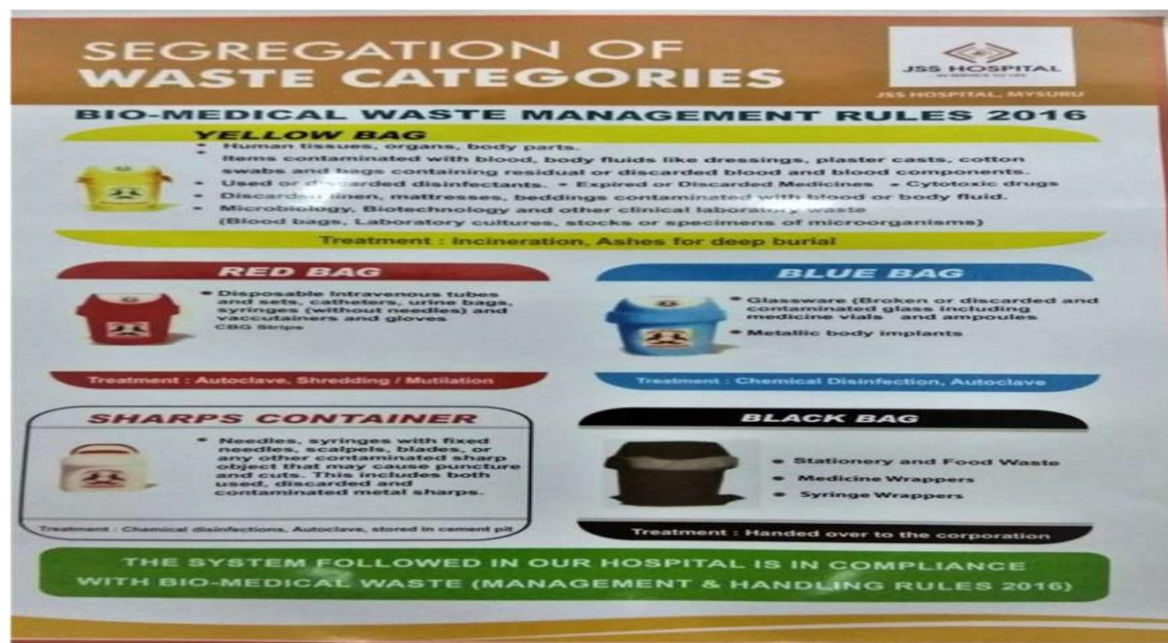
- Biomedical Waste management HIC-8b
- The SOP has been based on the policy direction issued in Gazette of India notification of 2018 Environment Protection Act guidelines
- All wards and departments will follow the under mentioned instructions meticulously
- Heads of departments and hierarchy of wards 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.

COLOUR CODING AND TYPE OF CONTAINER FOR DISPOSAL OF BIO-MEDICAL WASTES-2018

| COLOUR CODING | TYPE OF CONTAINER | TYPE OF WASTE | TREATMENT OPTIONS |
|---------------|-------------------|---|-------------------|
| Yellow | Plastic bag | <p>(a) Human Anatomical Waste:</p> <p>Human tissues, organs, body parts and foetus below the viability period (as per the Medical Termination of Pregnancy Act 1971, amended from time to time)</p> <p>(b)Animal Anatomical</p> <p>(c) Waste :</p> <p>Experimental animal carcasses, body parts, organs, tissues, including the waste generated from animals used in experiments or testing in veterinary hospitals or colleges or animal Houses.</p> <p>(d) Soiled Waste:</p> <p>Items contaminated with blood, body fluids like dressings, plaster casts, cotton swabs</p> <p>(e) Expired or Discarded Medicines:</p> <p>Pharmaceutical waste like antibiotics, cytotoxic drugs including all items contaminated with cytotoxic drugs along with glass ampoules, vials etc</p> <p>(g) Discarded linen, mattresses, beddings Contaminated with blood or body fluid</p> | Incineration |

| | | | |
|-------|---|---|---|
| Red | Red coloured non-chlorinated plastic bags or containers | <p>Contaminated Waste (Recyclable)</p> <p>(a) Wastes generated from disposable items such as tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vacutainers with their needles cut) and gloves.</p> <p>Microbiology cultures in plastic containers,</p> <p>Vacutainers with blood samples</p> | <p>Autoclave & Shredding</p> <p>Autoclaving or micro-waving followed by shredding or mutilation or combination of sterilization and shredding.</p> <p>Treated waste to be sent to registered or authorized recyclers or for energy recovery or plastics to diesel or fuel oil or for road making, whichever is possible</p> |
| White | Puncture proof, Leak proof, tamper proof containers | <p>Waste sharps including Metals:</p> <p>Needles, syringes with fixed needles, needles from needle tip cutter or burner, scalpels, blades, or any other contaminated sharp object that may cause puncture and cuts. This includes both used, discarded and contaminated</p> | <p>Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation in metal container or cement concrete;</p> <p>combination of shredding cum autoclaving; and sent for final disposal to iron foundries(having consent to</p> |

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| | | | operate from the State Pollution Control Boards or Pollution Control Committees) or sanitary landfill or designated concrete waste sharp pit. |
| Blue | Cardboard box With blue marking /covers | (a) Glassware: Broken or discarded and contaminated glass including medicine vials and ampoules except those contaminated with cytotoxic wastes. (b) Metallic Body Implants | Disinfection (by soaking the washed glass waste after cleaning with Detergent and Sodium Hypo chlorite treatment) Or through autoclaving or microwaving and then sent for recycling. |



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 man-power, 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 new comers 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.

GREEN CAMPUS



SIGN BOARDS



SOLAR POWERED ENERGY



Sign Boards And Equipments for Managing Fire Accidents



Biomedical waste management in Hospital

- 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.

5. Responsibilities of Infection Control Committee & Infection Control team

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 or testing of biological

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

Classification of waste: (According to Environmental Protection Agency, EPA)

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| <p>Regulated Waste: They require special disposal care.</p> <p>Sharps:</p> <ul style="list-style-type: none">-Disposable needles-Scalpel blades-Contaminated broken glass-Disposable dental burs | <p>Toxic Wastes: It is a waste that can have poisonous effect. Eg: mercury, extracted teeth with silver amalgam filling.</p> <p>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</p> |
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| <ul style="list-style-type: none"> -Endodontic files or reamers <p>Sharps:</p> <ul style="list-style-type: none"> -Disposable needles -Scalpel blades -Contaminated broken glass -Disposable dental burs -Endodontic files or reamers <p>Others:</p> <ul style="list-style-type: none"> -Blood -Blood soaked items -Human tissues -Pathological wastes <p>Non regulated Wastes:</p> <ul style="list-style-type: none"> -Contaminated materials -Saliva soaked gauze -Patient bibs -Surface barriers | <p>are provided to each department and each color is designated to collect specific type of waste as mentioned below.</p> <p>Non chlorinated yellow bags (Incinerable waste only) :</p> <ul style="list-style-type: none"> -Human tissue - Placenta - Infected cotton and dressing - Soiled plaster casts - Body parts - Blood bags - Cotton swabs - Bedding items contaminated with blood and body fluids - Expired pharmaceutical wastes (eg: expired analgesics and antibiotics) - Lab cultures - Waste specimens - Cytotoxic drugs <p>Non chlorinated red bags (plastic waste only):</p> <ul style="list-style-type: none"> -Catheter -IV sets -Gloves - Tubings - Syringe without needles etc.. <p>Non chlorinated blue bags (glasswares and metals only):</p> <ul style="list-style-type: none"> -Broken bottles -Discarded or contaminated glass vials and ampules. |
| <p>Black colored bags (not to be sent to BMW management facility):</p> <ul style="list-style-type: none"> -Food wastes -Tender coconut -Leaves wrapping -Office paper waste | <p>Non chlorinated white translucent bags or bin with disinfectant (only sharps):</p> <ul style="list-style-type: none"> -Glass pieces slides -Needles, lancets |

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| -Dustings -Paper and plastic cups -Syringe wrapper -Vegetables -Fruits or fruit peels etc.. | -Syringe with fixed needles -Scalpel blades -Overused and underused sharps |
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- 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

| Category | Definition | Examples |
|--------------------|---|--|
| Medical waste | Waste generated as part of treatment; can be contaminated or infectious | Contaminated barriers |
| Contaminated waste | Waste that has been in contact with blood or other body fluids; in most states, disposed of as general waste. | Contaminated patient bibs |
| Infectious waste | Contaminated waste that is capable of causing an infectious disease. | Blood and blood saturated materials |
| Chemical waste | Waste that poses a threat to humans or environment. | Pathological waste: tissue, extracted teeth. |
| Hazardous waste | Usually refers to toxic chemicals or materials. | Sharps: needles, burs. |
| Toxic waste | | Scrap amalgam. |
| General waste | Non hazardous, non regulated waste | Lead foil, radiographic solution, paper waste generated at front desk, discarded lunch bags or wraps |

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.

11.4 Handling of mercury, extracted teeth and sharps

a. 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 plants are 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.

b. 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.

c. Handling sharps

Safe injection practices:

These procedures should meet below mentioned criteria,

- 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 inorder 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 to avoid contamination between patients.
- Open only one vial of 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 in front 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 reenter 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 BMW. The details of which are maintained.
- Personal protective equipments 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:

1. Employee's name and social security number
2. Proof of employee's hepatitis B virus (HBV) vaccination or signed refusal
3. 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)
4. A copy of the postexposure follow up procedures for any injuries sustained by that employee
5. 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:

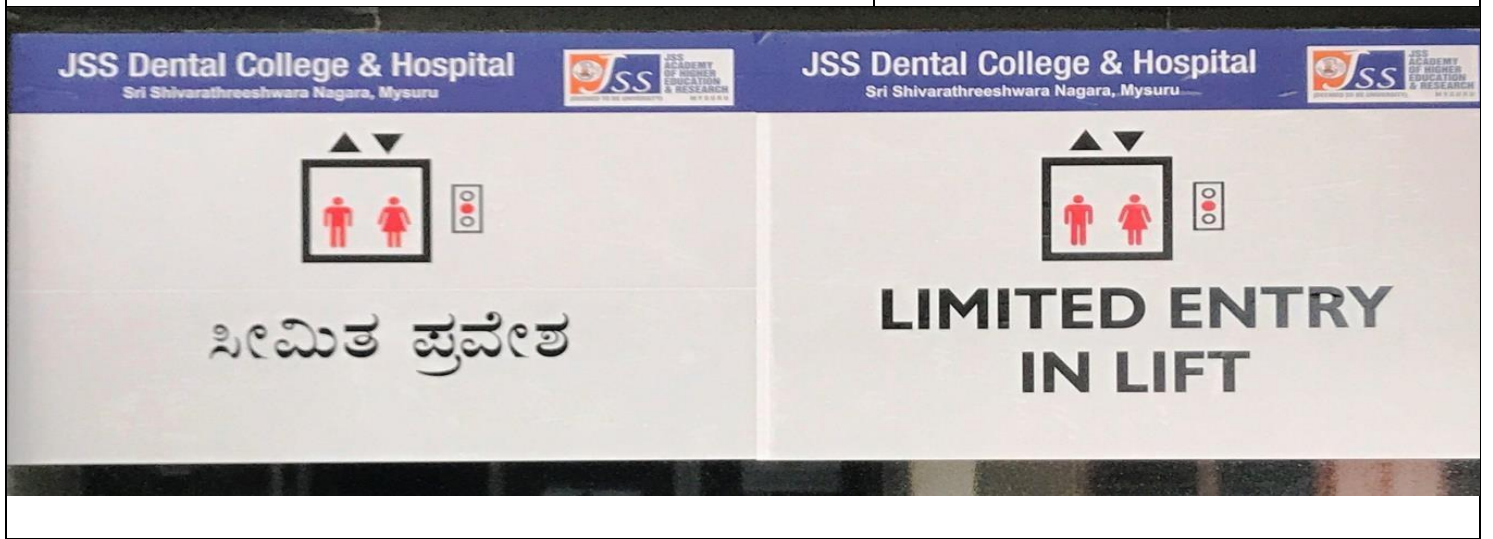
- Confidential medical counseling
- Human immunodeficiency virus (HIV) test series immediately and at 6 weeks, 12 weeks and 6 months
- Hepatitis B virus (HBV) immune globulin (if no prior HBV vaccination)
- Tetanus booster
- Documentation of incident on appropriate Occupational Safety and Health Administration (OSHA) form.

Dentistry amidst Covid Pandemic

Under the guidance of JSS AHER and infection control committee, JSS dental College & Hospital, the staff and student of our college are educated and equipped to provide safe and efficient dental treatment amidst Covid pandemic. All the essential safety and infection control protocols are being followed. Sign boards have been put up in the hospitals for patient education and safety.

SIGN BOARDS TO EDUCATE PATIENTS REGARDING SAFETY MEASUREMENTS DURING COVID PANDEMIC





Work Shop On Infection Control And Dental Safety In Dental Schools By Dr.Raghunath Puttaiah, BDS, MPH, FICD

The infection control committee and team in association with the NABH team, JSS Dental College and Hospital, JSS Academy of Higher Education and Research , organized a Continuing Dental Education program titled “Infection Control and Dental Safety in Dental schools” on 26th February 2019 at Sri Gowrishankara auditorium. The program was attended by good number of delegates comprising of undergraduate students, post graduates and the faculty members. Dr. Ravindra. S Principal, JSS Dental College and Hospital, delivered the welcome address. In the key note address the chief guest for the program Dr. P.A. Kushalappa, Director (Academics), JSS Academy of Higher Education and Research stressed the importance of infection control and safety at the dental schools and also highlighted the importance of organizing scientific events on a regular basis that helps to update the knowledge with current practices. Dr. Shruthi .S, Member, organizing committee introduced the guest speaker Dr. Raghunath Puttaiah. Dr. Raghunath Puttaiah is a Professor, Diagnostics Sciences at Texas A&M College of Dentistry, USA. He is a renowned international speaker and first infection control specialist. Various aspects of infection control in dental clinics were well explained to the audience. It was a very interactive session and a lot of take home messages were instilled to the young minds. It was suggested during the talk to submit a proposal to the dental council of India for including infection control and dental safety in the undergraduate curriculum. Emphasis on antibiotics abuse was addressed and the audience was sensitized to various equipments and materials for infection safety. The Continuing Dental Education program concluded with the recommendation for forming a local safety organization and to conduct training sessions on a regular basis. Dr. Satish. R, Convenor, Infection Control Committee proposed the vote of thanks. The programme was coordinated by Dr. Jai Shankar H.P and Dr. Sushma.R, Members, organizing committee.

Programme On Sterilization Instrument Processing And Documentation For NABH



Mr. Shanthamurthy from CSSD JSSMCH had come to JSS Dental College to enlighten the infection control committee members and nursing staff of JSS Dental College and Hospital regarding instrument processing and documentation which is required for NABH. He spoke about various processing actions of ultrasonic bath and sterilization, documentation of CSSD. The next day on 14th January 2020 a visit to the CSSD Department of Medical College was arranged by Mr. Shanthamurthy to infection control committee members. There they showed the CSSD of medical college, how it works in the Dirty area and Clean area. Gained the knowledge of separation, packing and sterilizing of instruments according to NABH

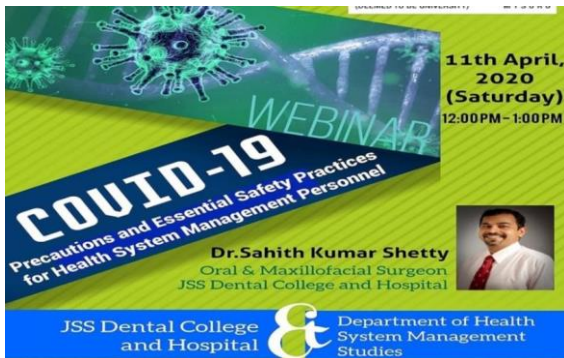
requirement. The SOP's of each procedure to be put up in each particular area of packing and Sterilization, Very well-maintained documentation of sterilization was noticed. There we were able to see CSSD with state of art equipments and we got few ideas which can be implemented in our CSSD. We thank to principal and management for giving this opportunity

6. WEBINARS CONDUCTED

Precautions & Essential Safety Practices For Health System Management Personnel

7. Disinfection For Safe Dental Practice During The Age Of COVID-19

As we anticipate opening of dental clinical services, we prepare ourselves with basics of disinfection -One of the most relevant procedures that we should adopt to prevent infection,



which is of prime importance in the age of COVID 19.

JSS Dental College &Hospital , JSS Academy of Higher Education & Research with IDA, Mysore branch, organizes a webinar for all our dentist colleagues.

Speakers : Dr Jaishankar H P , Associate Professor , Department of Oral Medicine & Radiology and Mr Dasprasad V , Senior Territory Manager , Bioshields - A division of Tulip Diagnostics (Pvt) Ltd.

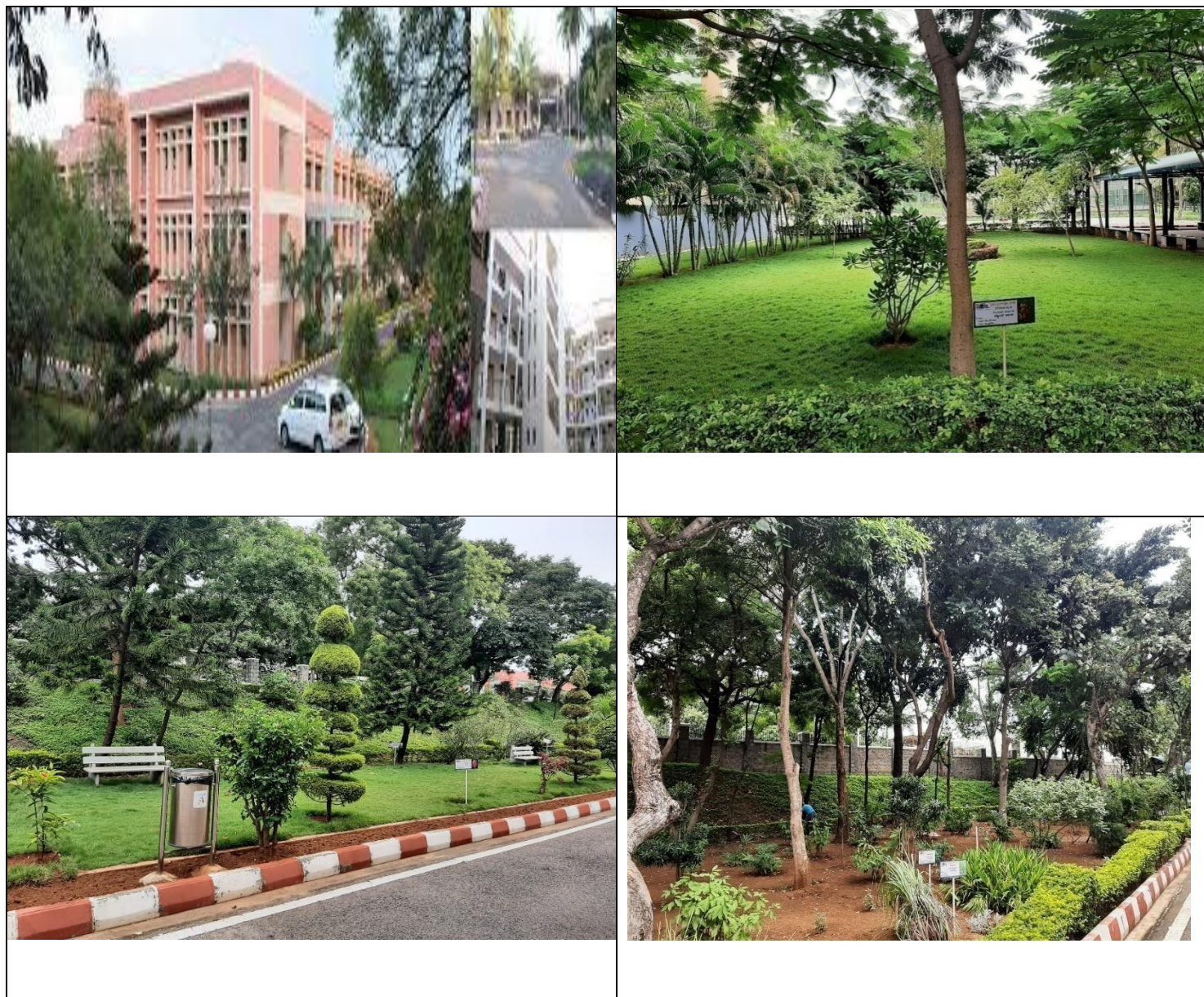
A COVID 19 Pandemic Awareness Program by Department of Oral Pathology & Microbiology



A COVID 19 pandemic awareness program was organized by the Department of Oral Pathology & Microbiology on July 3rd for non-teaching staff- house-keeping, ayahs, security and attenders of JSS Dental College & Hospital. The resource person was Mr. Bopanna Pattada, life skill & sports motivator from ARIVU school. The program started with an inaugural function followed by a very informative and

interactive session by the resource person and the audience. Awareness videos regarding spread of COVID 19, symptoms, precautions to be taken, preventive measures were some of the topics covered. The program concluded with vote of thanks and photo sessions. Feedback about the content of the program were collected. The program was well appreciated by all the participants and they requested for similar programs.

8. Provision for natural light in all its buildings.



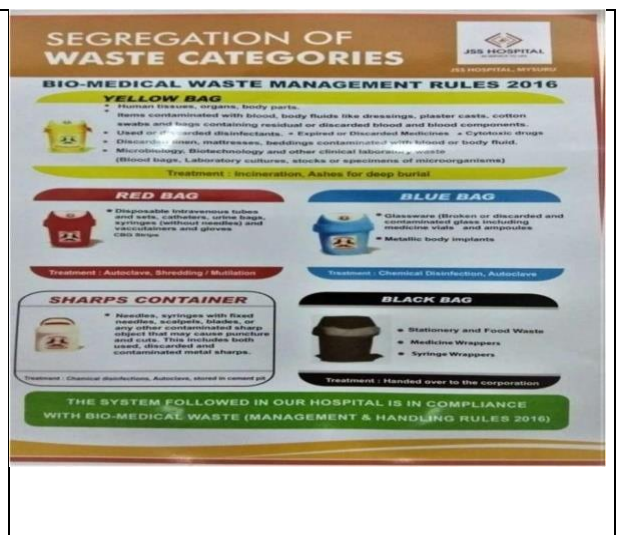
Greenery in the campus

The campus has ample lung space with lush green landscapes to maintain oxygen levels. Endemic trees are planted and a medicinal garden is maintained which has around 130 medicinal plants that explores the traditional medicinal applications



Sign boards for environmental protection

Sign boards for environmental protection



Sign boards for environmental protection and energy conservation

9. Tree plantation and protection of plants

JSSAHER Implement the 10-year framework of programmes on sustainable consumption and production, all countries taking action, with developed countries taking the lead, taking into account the development and capabilities of developing countries. achieve the sustainable management and efficient use of natural resources.

The JSSCPO NSS Volunteers along with the official of the Forest Department organized the “Tree Plantation Program” under the scheme of “JalasakthiAbiyan” to create an awareness on tree plantation in Thalaikunda forest area which was initiated by The Nilgiris District Collector Miss. Innocent Dhivya and Assistant Conservative Forest officer

The awareness and plantation of indigenous and solar grass varieties in The Nilgiris Library, Ooty which was organized by the Youth Red Cross. Thirty of JSSCPO NSS Volunteers were took part in that event and planted the indigenous and solar grasses in The Nilgiris Library.



Glimpses of treeplantation program

JSSAHER is working towards achieving the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment. Campus has 335 medicinal plant . JSS CPO participating yearly in the medicinal plants exhibition conducted by Nilgiri Horticulture Department for promoting the medicinal plants values for the public



Medicinal Plant Graden

JSSAHER will substantially reduce waste generation through prevention, reduction, recycling and reuse. Encourages companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle, promote public procurement practices that are sustainable, in accordance with national policies and priorities.

The campus has a lush green campus with seasonal trees and maintenance of garden has been done from time to time to keep it neat and clean. For promoting green environment resilience we initiated car and scooter pooling for the staff and students who resides in same locality.

JSSAHER ensures that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature.

The JSSCPO NSS Volunteers along with the official of the Forest Department organized the “Tree Plantation Program” under the scheme of “JalasakthiAbiyan” to create an awareness on tree plantation in Thalaikunda forest area which was initiated by The Nilgiris District Collector Miss. Innocent Dhivya and Assistant Conservator Forest officer



Tree plantation program

JSSAHER Supports to strengthen their scientific and technological capacity to move towards more sustainable patterns of consumption and production by developing and implement tools to monitor sustainable development impacts for sustainable tourism that creates jobs and promotes local culture and products and taking fully into account the specific needs and conditions of developing countries and minimizing the possible adverse impacts on their development in a manner that protects the poor and the affected communities.

10. JSSAHER SOCIAL RESPONSIBILITY

Economic and social progress over the last century has been accompanied by environmental degradation that is endangering the very systems on which our future development and very survival depend. If we don't act to change our consumption and production patterns, we will cause irreversible damage to our environment. There are two main ways to help the Goal: 1. Reducing our waste and 2. Being thoughtful about what we buy and choosing a sustainable option whenever possible.

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 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.

JSSAHER ensures that:

- Procurement, storage and maintenance of food is reliable, safe and represent value for money.
- Environmental and social responsibility is factored in to 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.
- Usage of biodegradable packaging whenever possible.
- Recycling and reuse where applicable
- Minimizing wastage while procurement, storage, maintenance and deliver.
- To serve sustainable food and to reduce plate waste.

Details of Expenditure Incurred towards Maintenance of JSSAEHR Hostel & Allied Services during the FY 2017 - 18 to 2019 - 20

2019-20

| Sl No | Particulars | JSSMC | | JSSCPM | | JSSCPO | Total |
|-------|----------------------------------|-------------------|-------------------|-------------------|-------------------|---------------------|---------------------|
| | | Boy's Hostel | Girl's Hostel | Boy's Hostel | Girl's Hostel | | |
| 1 | Purchase of Furniture & Fixture | - | - | - | 78,992.00 | 238,280.00 | 317,272.00 |
| 2 | Instrument & Equipment | - | 141,600.00 | 781,277.00 | 563,746.00 | 1,171,795.00 | 2,658,418.00 |
| 3 | Computers | 52,950.00 | - | - | - | - | 52,950.00 |
| 4 | Repair & Maintenance of Building | 618,806.00 | 508,725.00 | 47,135.00 | 95,907.00 | 2,131,599.00 | 3,402,172.00 |
| | Total | 671,756.00 | 650,325.00 | 828,412.00 | 738,645.00 | 3,541,674.00 | 6,430,812.00 |

2018-19

| Sl No | Particulars | JSSMC | | JSSCPM | | JSSCPO | Total |
|-------|----------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| | | Boy's Hostel | Girl's Hostel | Boy's Hostel | Girl's Hostel | | |
| 1 | Purchase of Furniture & Fixture | 933,337.00 | 110,848.00 | 126,143.00 | 510,220.00 | 134,988.00 | 1,815,536.00 |
| 2 | Instrument & Equipment | - | 555,197.00 | 1,246,954.00 | 2,377,446.00 | 1,221,960.00 | 5,401,557.00 |
| 3 | Computers | - | 16,550.00 | - | - | - | 16,550.00 |
| 4 | Repair & Maintenance of Building | 1,508,011.00 | 470,972.00 | 2,494,500.00 | 800,000.00 | 3,380,758.00 | 8,654,241.00 |
| | Total | 2,441,348.00 | 1,153,567.00 | 3,867,597.00 | 3,687,666.00 | 4,737,706.00 | 15,887,884.00 |

2017-18

| Sl No | Particulars | JSSMC | | JSSCPM | | JSSCPO | Total |
|-------|----------------------------------|---------------------|---------------------|-------------------|---------------------|---------------------|---------------------|
| | | Boy's Hostel | Girl's Hostel | Boy's Hostel | Girl's Hostel | | |
| 1 | Purchase of Furniture & Fixture | 2,650,191.00 | 29,413.00 | 126,456.00 | 799,240.00 | 679,255.00 | 4,284,555.00 |
| 2 | Instrument & Equipment | - | 593,390.00 | 358,945.00 | 219,345.00 | 207,616.00 | 1,379,296.00 |
| 3 | Computers | - | - | - | - | - | - |
| 4 | Repair & Maintenance of Building | 568,398.00 | 823,843.00 | 10,940.00 | 18,000.00 | 1,205,147.00 | 2,626,328.00 |
| | Total | 3,218,589.00 | 1,446,646.00 | 496,341.00 | 1,036,585.00 | 2,092,018.00 | 8,290,179.00 |

**Abstract of the Expenditure Incurred by JSSAHER towards Maintennace of Hostel & Allied Services during the
FY 2017 - 18 to 2019 - 20**

| Sl No | Particulars | 2019-20 | 2018-19 | 2017-18 | TOTAL |
|--------------|----------------------------------|---------------------|----------------------|---------------------|----------------------|
| 1 | Purchase of Furniture & Fixture | 317,272.00 | 1,815,536.00 | 4,284,555.00 | 6,417,363.00 |
| 2 | Instrument & Equipment | 2,658,418.00 | 5,401,557.00 | 1,379,296.00 | 9,439,271.00 |
| 3 | Computers | 52,950.00 | 16,550.00 | - | 69,500.00 |
| 4 | Repair & Maintenance of Building | 3,402,172.00 | 8,654,241.00 | 2,626,328.00 | 14,682,741.00 |
| Total | | 6,430,812.00 | 15,887,884.00 | 8,290,179.00 | 30,608,875.00 |

Details of Expenditure Incurred Towards Maintenance of Bio-Medical Wastage

| Sl. No. | Particulars | Jan -June | | TOTAL |
|---------|-------------|------------|------------|------------|
| | | 2019-20 | 2020-21 | |
| 1 | JSS CPM | 8,400.00 | 4,200.00 | 12,600.00 |
| 2 | JSS DCH | 219,324.00 | 109,494.00 | 328,818.00 |
| 3 | JSS CPO | 14,000.00 | 14,000.00 | 28,000.00 |
| 4 | JSS MC | 148,078.00 | 117,054.00 | 265,132.00 |
| Total | | 389,802.00 | 244,748.00 | 634,550.00 |

Details of Expenditure Incurred by JSSAHER Towards Purchases of Provisions for its Hostels

Rupees in Lakhs

| Sl. No. | Particulars | JSSMI Campus | | JSSCPM Campus | | JSSCPO Campus | | TOTAL |
|---------|----------------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|
| | | Girls Hostel | Boys Hostel | Girls Hostel | Boys Hostel | Girls Hostel | Boys Hostel | |
| 1 | MYSURU MILK DAIRY | 16.53 | 18.09 | 9.93 | 11.26 | 8.33 | 7.49 | 71.63 |
| 2 | VEGETABLES & FRUITS | 21.54 | 18.55 | 23.65 | 26.51 | 19.28 | 20.12 | 129.65 |
| 3 | GAS SERVICES | 7.47 | 7.71 | 8.54 | 8.47 | 8.88 | 9.36 | 50.43 |
| 4 | S.L.V IYENGAR BAKERY | 10.06 | 6.04 | 14.05 | 9.69 | 4.83 | 8.97 | 53.64 |
| 5 | JSS ENTERPRISES | 30.07 | 36.48 | 31.34 | 34.65 | 38.70 | 38.75 | 209.99 |
| 6 | OTHERS | 14.34 | 13.11 | 12.49 | 9.41 | 15.56 | 15.30 | 80.21 |
| 7 | TOTAL | 100.01 | 99.98 | 100.00 | 99.99 | 95.58 | 99.99 | 595.55 |

Government of India / ಭಾರತ ಸರ್ಕಾರ
Food Safety and Standards Authority of India / ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಪ್ರಾಧಿಕಾರ
Form 'C' / ನಮೂನೆ
License / ಪರವಾನಗಿ
(See Regulation 2.1.4 (6)) / (ನಿಯಂತ್ರಣ 2.1.4 (6) ನೋಡಿ)



Government of Karnataka / ಕರ್ನಾಟಕ ಸರ್ಕಾರ
License under FSS Act, 2006 / ಎಫ್.ಎಸ್.ಎಸ್. ಕಾಯ್ದೆ, ೨೦೦೬ ರಡಿಯಲ್ಲಿಪರವಾನಗಿ

License Number / ಪರವಾನಗಿ ಸಂಖ್ಯೆ : 11219335000512

1. Name & Registered Office Address of Licensee
ಹೆಸರು ಮತ್ತು ನೋಂದಾಯಿತ ಕಛೇರಿಯ ವಿಳಾಸ
JSS ACADEMY OF HIGHER EDUCATION & RESEARCH H
JSS Academy of Higher Education & Research, PG Hostel
for Men and Women, JSS Hospital Campus, M G Road,
Agrahara, Mysuru - 04, Mysore City (Karnataka) -
570004
2. Address of Authorized Premises
ಅಧಿಕೃತ ವ್ಯಾಪಾರದ ವಿಳಾಸ
JSS Academy of Higher Education & Research, PG Hostel
for Men and Women, JSS Hospital Campus, M G Road,
Agrahara, Mysuru - 04, Mysore Mahanagar Palike II
Circle , Mysore City(Karnataka) -570004
3. Kind of Business / ವ್ಯಾಪಾರದ ವಿಧ
Manufacturer, Club/Canteen
4. For dairy business details of location with address and No
capacity of Milk Chilling Centers (MCC)/Bulk Milk
Cooling Centers (BMCs)/Milk Processing Unit/Milk
Packaging Unit owned by the holder of licensee/RC /
ಡೈರಿ ವ್ಯಾಪಾರದ ಸ್ಥಳದ ವಿಳಾಸ/ಹಾಲು ಶಿಥಿಲೀಕರಣದ ಸಾಮಥ್ರ್ಯ /ಡೊಡ್ಡ
ಪ್ರಮಾಣದ ಹಾಲು ಶಿಥಿಲೀಕರಣ ಕೇಂದ್ರ , ಹಾಲು ಸಂಸ್ಕರಣಘಟಕ/
ಪರವಾನಗಿದಾರರೊಡನೆ ದಲ್ಲಿರುವ ಹಾಲು ಪ್ಯಾಕಿಂಗ್ ಘಟಕ/ಆರ್.ಸಿ.
5. Category of License / ಪರವಾನಗಿಯ ವಿಧ : **State**

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. / ಈ ಪರವಾನಗಿಯು ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆಯ ನಿಬಂಧನೆಗಳಿಗೆ ಒಳಪಟ್ಟು ನೀಡಲಾಗಿದೆ ಹಾಗೂ ಆಹಾರ ಪರವಾನಗಿದಾರರು ಈ ಎಲ್ಲಾ ನಿಬಂಧನೆಗಳನ್ನು ಅನುಸರಿಸತಕ್ಕದ್ದು.

Place / ಸ್ಥಳ : Mysore City
Date / ದಿನಾಂಕ : 25/09/2019

Stamp and Signature of the Designated Officer
ಅಂಕಿತ ಅಧಿಕಾರಿಗಳ ನೋಂದಣಿ ಮುದ್ರೆ ಮತ್ತು ಸಹಿ
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ
ಮೈಸೂರು-10

Validation And Renewal

ಉಚಿತ ಮತ್ತು ನವೀಕರಣ

| Renewal Date ನವೀಕರಣ ದಿನಾಂಕ | Period of validity ಅಂಗೀಕಾರಾರ್ಹತೆಯ ಅವಧಿಯನ್ನು | License Fee Paid ಪರವಾನಗಿ ಶುಲ್ಕಗಳನ್ನು ಪಾವತಿ | Items of Food products authorized to Manufacture/ Re-pack/ Re-label ಆಹಾರ ಉತ್ಪನ್ನಗಳ ಐಟಂಗಳನ್ನು / ಮತ್ತೆ ಮೂಟೆಕಟ್ಟು / ಪುನಃ ಹೆಸರು ಪಟ್ಟಿ ಅಂಟಿಸು ತಯಾರಿಕೆ ಅಧಿಕಾರ. | Signature Of Designated Officer ಗೊತ್ತುಪಡಿಸಿದ ಅಧಿಕಾರಿಯ ಸಹಿ |
|----------------------------------|---|---|--|--|
| 25/09/2019 | 24/09/2022 | Rs.9000 | Please refer to annexure for details. | |

***The Application for renewal of license shall be submitted 30 days prior to the expiry date mentioned above after which Rs. 100 per day will be charged up to the date of expiry.**
Disclaimer-This License is only to commence or carry on food businesses and not for any other purpose.

Government of India / ಭಾರತ ಸರ್ಕಾರ
 Food Safety and Standards Authority of India / ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಪ್ರಾಧಿಕಾರ
 Form 'C' / ನಮೂನೆ
License / ಪರವಾನಗಿ
 (See Regulation 2.1.4 (6)) / (ನಿಯಂತ್ರಣ 2.1.4 (6) ನೋಡಿ)



Government of Karnataka / ಕರ್ನಾಟಕ ಸರ್ಕಾರ
 License under FSS Act, 2006 / ಎಫ್.ಎಸ್.ಎಸ್. ಕಾಯ್ದೆ, ೨೦೦೬ ರಡಿಯಲ್ಲಿಪರವಾನಗಿ

License Number / ಪರವಾನಗಿ ಸಂಖ್ಯೆ: : **11219335000512**

Items of Food products with capacities Installed authorized to Manufacture/ Re-pack/Re-label

Other food processing units

| Sl.No. | Product Description | Quantity (MT/Day) | Kind of Business |
|--------|-------------------------|-------------------|------------------|
| 1 | Vegetarian Food Only 16 | 0.1 | Manufacturer |

Kind of Business : Food Business Operator

Club/Canteen

| Sl.No | Food Product Category |
|-------|--|
| 1 | 16 - Prepared Foods |
| 2 | 14 - Beverages, excluding dairy products |

Stamp and Signature of the Designated Officer

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳ ಪರಿಶೀಲನೆ ಮತ್ತು ಮೊಹರು

ಅಧಿಕಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ

ಪ್ರಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ

ಮೆ.ಸೂರು-10



Government of Karnataka / ಕರ್ನಾಟಕ ಸರ್ಕಾರ

License under FSS Act, 2006 / ಎಫ್.ಎಸ್.ಎಸ್. ಕಾಯ್ದೆ, ೨೦೦೬ ರಡಿಯಲ್ಲಿಪರವಾನಗಿ

License Number / ಪರವಾನಗಿ ಸಂಖ್ಯೆ : 11219335000513

1. Name & Registered Office Address of Licensee
ಹೆಸರು ಮತ್ತು ನೋಂದಾಯಿತಕಛೇರಿಯ ವಿಳಾಸ

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
JSS Academy of Higher Education & Research, Hostel of
Men and Women, JSS College of Pharmacy Campus, Sri
Shivarathreeswara Nagara, Mysuru, Mysore City
(Karnataka) - 570015

2. Address of Authorized Premises
ಅಧಿಕೃತ ವ್ಯಾಪಾರದ ವಿಳಾಸ

JSS Academy of Higher Education & Research, Hostel of
Men and Women, JSS College of Pharmacy Campus, Sri
Shivarathreeswara Nagara, Mysuru, Mysore Mahanagar
Palike II Circle , Mysore City(Karnataka) -570015

3. Kind of Business / ವ್ಯಾಪಾರದ ವಿಧ

Manufacturer, Club/Canteen

4. For dairy business details of location with address and No
capacity of Milk Chilling Centers (MCC)/Bulk Milk
Cooling Centers (BMCs)/Milk Processing Unit/Milk
Packaging Unit owned by the holder of licensee/RC /
ದೈರಿ ವ್ಯಾಪಾರದ ಸ್ಥಳದ ವಿಳಾಸ/ಹಾಲು ಶಿಥಿಲೀಕರಣದ ಸಾಮಥ್ರ್ಯ /ದೊಡ್ಡ
ಪ್ರಮಾಣದ ಹಾಲು ಶಿಥಿಲೀಕರಣ ಕೇಂದ್ರ , ಹಾಲು ಸಂಸ್ಕರಣಘಟಕ/
ಪರವಾನಗಿದಾರರೊಡತನದಲ್ಲಿರುವ ಹಾಲು ಪ್ಯಾಕಿಂಗ್ ಘಟಕ/ಆರ್.ಸಿ.

5. Category of License / ಪರವಾನಗಿಯ ವಿಧ :

State

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. / ಈ ಪರವಾನಗಿಯು ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆಯ ನಿಯಂತ್ರಣಗಳಿಗೆ ಒಳಪಟ್ಟು ನೀಡಲಾಗಿದೆ ಹಾಗೂ ಆಹಾರ ಪರವಾನಗಿದಾರರು ಈ ಎಲ್ಲಾ ನಿಯಂತ್ರಣಗಳನ್ನು ಅನುಸರಿಸತಕ್ಕದ್ದು.

Place / ಸ್ಥಳ : Mysore City

Date / ದಿನಾಂಕ : 25/09/2019

Stamp and Signature of the Designated Officer

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳ ದೃಢೀಕರಣ ಮೊಹರು

ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ

ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ

ಮೈಸೂರು-10

Validation And Renewal

ಉರ್ಜಿತ ಮತ್ತು ನವೀಕರಣ

| Renewal Date ನವೀಕರಣ ದಿನಾಂಕ | Period of validity ಅಂಗೀಕಾರಾರ್ಹತೆಯ ಅವಧಿಯನ್ನು | License Fee Paid ಪರವಾನಗಿ ಶುಲ್ಕಗಳನ್ನು ಪಾವತಿ | Items of Food products authorized to Manufacture/ Re-pack/ Re-label ಆಹಾರ ಉತ್ಪನ್ನಗಳ ಐಟಂಗಳನ್ನು / ಮತ್ತೆ ಮೂಟೆಕಟ್ಟು / ಪುನಃ ಹೆಸರು ಪಟ್ಟಿ ಅಂಚಿಸು ತಯಾರಿಕೆ ಅಧಿಕಾರ. | Signature Of Designated Officer ಗೊತ್ತುಪಡಿಸಿದ ಅಧಿಕಾರಿಯ ಸಹಿ |
|----------------------------------|---|---|---|---|
| 25/09/2019 | 24/09/2022 | Rs.9000 | Please refer to annexure for details. | |

*The Application for renewal of license shall be submitted 30 days prior to the expiry date mentioned above after which Rs.

100 per day will be charged up to the date of expiry.

Disclaimer-This License is only to commence or carry on food businesses and not for any other purpose.

ಮೈಸೂರು-10

Government of India / ಭಾರತ ಸರ್ಕಾರ
 Food Safety and Standards Authority of India / ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಪ್ರಾಧಿಕಾರ
 Form 'C' / ನಮೂನೆ
License / ಪರವಾನಗಿ
 (See Regulation 2.1.4 (6)) / (ನಿಯಂತ್ರಣ 2.1.4 (6) ನೋಡಿ)



Government of Karnataka / ಕರ್ನಾಟಕ ಸರ್ಕಾರ
 License under FSS Act, 2006 / ಎಫ್.ಎಸ್.ಎಸ್. ಕಾಯ್ದೆ, ೨೦೦೬ ರಡಿಯಲ್ಲಿಪರವಾನಗಿ

License Number / ಪರವಾನಗಿ ಸಂಖ್ಯೆ : **11219335000513**

Items of Food products with capacities Installed authorized to Manufacture/ Re-pack/Re-label

Other food processing units

| SI.No. | Product Description | Quantity (MT/Day) | Kind of Business |
|--------|-------------------------|-------------------|------------------|
| 1 | Vegetarian Food Only 16 | 0.1 | Manufacturer |

Kind of Business : Food Business Operator

Club/Canteen

| SI.No | Food Product Category |
|-------|-----------------------|
| 1 | 16 - Prepared Foods |

Stamp and Signature of the Designated Officer

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳ ಸಹಿ ಮತ್ತು ಮೊಹರು

ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ, ಕಾಯ್ದೆ
 ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ
 ಮೈಸೂರು-10

Government of India / ಭಾರತ ಸರ್ಕಾರ
Food Safety and Standards Authority of India / ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಪ್ರಾಧಿಕಾರ
Form 'C' / ನಮೂನೆ
License / ಪರವಾನಗಿ
(See Regulation 2.1.4 (6)) / (ನಿಯಂತ್ರಣ 2.1.4 (6) ನೋಡಿ)




Government of Karnataka / ಕರ್ನಾಟಕ ಸರ್ಕಾರ
License under FSS Act, 2006 / ಎಫ್.ಎಸ್.ಎಸ್. ಕಾಯ್ದೆ, ೨೦೦೬ ರಡಿಯಲ್ಲಿಪರವಾನಗಿ

License Number / ಪರವಾನಗಿ ಸಂಖ್ಯೆ : 11219335000510

1. Name & Registered Office Address of Licensee
ಹೆಸರು ಮತ್ತು ನೋಂದಾಯಿತಕಛೇರಿಯ ವಿಳಾಸ
JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
JSS AHER HOSTELS, JSS Medical Institutions
Campus, S.S. Nagar, Mysore. , Mysore City (Karnataka) - 570015
2. Address of Authorized Premises
ಅಧಿಕೃತ ವ್ಯಾಪಾರದ ವಿಳಾಸ
JSS AHER HOSTELS, JSS Medical Institutions
Campus, S.S. Nagar, Mysore. , Mysore Mahanagar Palike II
Circle , Mysore City (Karnataka) - 570015
3. Kind of Business / ವ್ಯಾಪಾರದ ವಿಧ
Manufacturer, Club/Canteen
4. For dairy business details of location with address and No
capacity of Milk Chilling Centers (MCC)/Bulk Milk
Cooling Centers (BMCs)/Milk Processing Unit/Milk
Packaging Unit owned by the holder of licensee/RC /
ಡೈರಿ ವ್ಯಾಪಾರದ ಸ್ಥಳದ ವಿಳಾಸ/ಹಾಲು ಶಿಥಿಲೀಕರಣದ ಸಾಮಗ್ರಿ /ದೊಡ್ಡ
ಪ್ರಮಾಣದ ಹಾಲು ಶಿಥಿಲೀಕರಣ ಕೇಂದ್ರ , ಹಾಲು ಸಂಸ್ಕರಣಘಟಕ/
ಪರವಾನಗಿದಾರರೊಡನೆನಲ್ಲಿರುವ ಹಾಲು ಪ್ಯಾಕಿಂಗ್ ಘಟಕ/ಆರ್.ಸಿ.
5. Category of License / ಪರವಾನಗಿಯ ವಿಧ : **State**


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. / ಈ ಪರವಾನಗಿಯು ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆಯ ನಿಬಂಧನೆಗಳಿಗೆ ಒಳಪಟ್ಟು ನೀಡಲಾಗಿದೆ ಹಾಗೂ ಆಹಾರ ಪರವಾನಗಿದಾರರು ಈ ಎಲ್ಲಾ ನಿಬಂಧನೆಗಳನ್ನು ಅನುಸರಿಸತಕ್ಕದ್ದು.

Place / ಸ್ಥಳ : Mysore City
Date / ದಿನಾಂಕ : 25/09/2019


Stamp and Signature of the Designated Officer
ಅಂಕಿತ ಅಧಿಕಾರಿಗಳ ಸಹಿ ಮತ್ತು ಮುದ್ರೆ
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ
ಮೈಸೂರು-10

Validation And Renewal

ಉರ್ಜಿತ ಮತ್ತು ನವೀಕರಣ

| Renewal Date ನವೀಕರಣ ದಿನಾಂಕ | Period of validity ಅಂಗೀಕಾರಾರ್ಹತೆಯ ಅವಧಿಯನ್ನು | License Fee Paid ಪರವಾನಗಿ ಶುಲ್ಕಗಳನ್ನು ಪಾವತಿ | Items of Food products authorized to Manufacture/ Re-pack/ Re-label ಆಹಾರ ಉತ್ಪನ್ನಗಳ ಐಟಂಗಳನ್ನು / ಮತ್ತೆ ಮೂಟೆಕಟ್ಟು / ಪುನಃ ಹೆಸರು ಪಟ್ಟಿ ಅಂಟಿಸು ತಯಾರಿಕೆ ಅಧಿಕಾರ. | Signature Of Designated Officer ಗೊತ್ತುಪಡಿಸಿದ ಅಧಿಕಾರಿಯ ಸಹಿ |
|----------------------------------|---|---|---|---|
| 25/09/2019 | 24/09/2022 | Rs.9000 | Please refer to annexure for details. |  |

***The Application for renewal of license shall be submitted 30 days prior to the expiry date mentioned above after which Rs.**

100 per day will be charged up to the date of expiry.

Disclaimer-This License is only to commence or carry on food businesses and not for any other purpose.

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳು
ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಕಾಯ್ದೆ
ಮೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ
ಮೈಸೂರು-10

Government of India / ಭಾರತ ಸರ್ಕಾರ
 Food Safety and Standards Authority of India / ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ ಪ್ರಾಧಿಕಾರ
 Form 'C' / ನಮೂನೆ
License / ಪರವಾನಗಿ
 (See Regulation 2.1.4 (6)) / (ನಿಯಂತ್ರಣ 2.1.4 (6) ನೋಡಿ)



Government of Karnataka / ಕರ್ನಾಟಕ ಸರ್ಕಾರ
 License under FSS Act, 2006 / ಎಫ್.ಎಸ್.ಎಸ್. ಕಾಯ್ದೆ, ೨೦೦೬ ರಡಿಯಲ್ಲಿಪರವಾನಗಿ

License Number / ಪರವಾನಗಿ ಸಂಖ್ಯೆ: : **11219335000510**

Items of Food products with capacities Installed authorized to Manufacture/ Re-pack/Re-label

Other food processing units

| Sl.No. | Product Description | Quantity (MT/Day) | Kind of Business |
|--------|---------------------|-------------------|------------------|
| 1 | Vegeterian Food 16 | 0.1 | Manufacturer |

Kind of Business : Food Business Operator

Club/Canteen

| Sl.No | Food Product Category |
|-------|--|
| 1 | 16 - Prepared Foods |
| 2 | 14 - Beverages, excluding dairy products |

Stamp and Signature of the Designated Officer

ಅಂಕಿತ ಅಧಿಕಾರಿಗಳ ಸಹಿ ಮತ್ತು ಮೊಹರು

ಆಹಾರ ಸುರಕ್ಷತೆ ಮತ್ತು ಗುಣಮಟ್ಟ, ಕಾವೇರಿ

ಫೈಸೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ ವ್ಯಾಪ್ತಿ

ಮೈಸೂರು-10

Date: 21-6-2019

TO
JSS Medical College
JSS Academy of Higher Education
Mysore
Karnataka

Dear Sir,

Sub: - Rain water harvesting & Bore we recharge works Visit report from Geo Rain Water Board (a NGO) at your esteemed JSS Medical College Campus, Mysore

* * * * *

I wish to inform you that, I the undersigned **Sri N.J.Devaraja Reddy** as a Chief Consultant under Geo Rain Water Board (a NGO), Chitradurga since 2000 in and around Karnataka State. I have carried out and served for various types of project works related to Rain Water Harvesting and Ground Water Recharging structures for Rural and Urban Communities. The details of works and projects carried out by our Organization is enclosed for your kind reference.

ABOUT OUR ORGANIZATION :

We take liberty to inform your good self regarding our organization and activities all over Karnataka. We have installed more than 30,000 Bore-wells with recharging system and 5500 Roof Top Rain Water Harvesting System , Ten Lakh different species of plants throughout Karnataka and parts of Andhra Pradesh.

During past 32 years of our operation, Quality and Quantity of water has improved wherever we have applied Rain Water Harvesting system. We took almost 25 years to come through in this method of recharging successfully by continues research.

We have well Trained Team with Technical Expertise to handle the installation of recharging properly.

At some places even dried Bore-wells have become rejuvenated and PH value of water has improved and **salinity, TDS and fluoride** content of water has decreased considerably.

We have enclosed list of some of our clients who have installed this system at various places in Karnataka and parts of India.

DETAILS OF VISIT :

With reference to the above-cited subject and reference, I have personally visited Your Esteemed JSS Medical college campus Mysore on 21-6-2019

DETAILS :

| | | |
|----------------------------|---|-----------------------------|
| Name | : | JSS Medical College. |
| Location | : | Mysore |
| Type of soil | : | Red Soil |
| Water Quality | : | Medium |
| Rainfall | : | 1200 mm (ave.) per year. |
| Vegetation | : | teak garden well maintained |
| Rock type | : | Granitic gneiss Hard Rock |
| No. of Bore-wells Drilled | : | around 10 Nos |
| Water conservation Works | : | No. |
| Daily Consumption of Water | : | 3 lakh Litters/ Per day. |

REPORT :

Based on the Geological, Hydro Geological, Geo Morphological, & Environmental study we have observed the following things. At JSS medical, college campus Mysore Is depending upon the Bore well and corporation water supply.

Due to hard rock in the subsurface water-holding capacity is less. Runoff is more. Almost 95% of rain water sources are moving to nearby tanks.

Water conservation works not done scientifically in the JSS medical college campus premises.

High Intensity of rainfall in these areas.

Water quality in the subsurface is hard water.

The depth of bore wells more than 1000 feet, the Diameter of Bore wells 160 mm

MEASURES TO BE TAKEN :

A) Bore well recharge system for 8 Bore-wells

B) Farm ponds for 4 bore wells 30x60x 8 ft deep

C) Rain water storage tank 1 lakh litters Capacity all the blocks

D) Rooftop Rain water harvesting system for all the blocks

E) Trench cum bunds , Boundary Glirecedia plantation

A) Bore well Recharge Estimate

Bore well recharge is an ideal concept to improve ground water in the dry bore wells at JSS Medical college campus, 8 No of bore wells are drilled all the bore wells less yield. The bore well site is ideal for recharging. Bore well water quality& TDS is very high; due to continuous pumping the water yield in the bore wells may be reduced. Every year the TDS percentage increasing in your bore well because of depleting the ground water levels. By implementing the above said modern techniques and scientific

methods; you will surely gain the sufficient groundwater in the bore wells for Your JSS medical college campus Mysore.

Your Scope Material required for one Bore well Recharge

| <i>Sl. No.</i> | <i>Description /Quantity</i> | <i>Each BW</i> |
|----------------|---|----------------|
| 1 | Bore well recharge pit – Earth work Excavation around bore well JCB/ ITACHI /LABOUR | 8x8x10 ft Deep |
| 2 | Boulders 6” To 8” Size Small Boulder | 2 00 CFT |
| 3 | 40 mm dia jelly | 200 CFT |
| 4 | 20 mm dia jelly | 200 CFT |
| 5 | 6mm chips Jelly | 200 CFT |
| 6 | Labor Charges for laying all the above materials in layers | 8 No |
| 7 | 5 or 6 ft Dia Concrete Rings 2 No | 2 No |
| 8 | Lead off drain For rain water Flow , silt Trap ,etc , depending upon the bore well Site condition | Bore well |
| 9 | Cement 1 Bag/Bore well | 1 Bag |
| 10 | Charcoal 2 Bags/BW | 40 KG/Bw |
| 11 | Water Test | |
| 12 | Painting to Casing Pipe | |
| 13 | Water Flow Meter | |
| 14 | Required Quantity of PVC Pipes up to bore well recharge unit | |
| 15 | Rain water flow channel stone work etc | |

CONSULTANCY CHARGES FOR ONE BORE WELL RECHARGE WORK

| <i>Sl. No.</i> | <i>Description</i> |
|---|--|
| 1 | Consultancy Charges:- Designing one Bore well recharge structure consultancy services supervision for each Borewell, study the litho logy making decisions in the spot. |
| 2 | Bore-well recharge filter materials like AQUAMESH |
| 3 | NYLON MESH FILTER |
| 4 | SAND FILTER |
| 5 | HDPE NET MAT |
| 6 | Casing pipe holding bracket with bolts and nuts |
| 7 | Technical person for preparing filter bed, fixing of filters to the casing pipe Completion of Work |
| 8 | Filters Binding material |
| Total RS 25,000 /ONE BORE WELL Conveyance charges Rs 10,000 Preliminary survey charges 21.6.2019 Rs 10,000 | |

Note: Taxi charges for materials transport not included

RAIN WATER HARVESTING

| <i>Sl. No.</i> | <i>Description</i> | <i>Charges</i> |
|----------------|---|----------------|
| 1 | Your scope /Rain water harvesting for Each Building Plumbing work up to sump tank as per our direction pipe size fittings, plumber work etc up to sump tank | Your scope |
| 2 | Consultancy Charges:- Plumber charges fixing is our scope | 15,000 |
| 3 | Rain water purification filters | 15,000 |

RAIN WATER HARVESTING IS ESSENTIAL BECAUSE :

- 1 Surface water is inadequate to meet our demand and we have to depend on ground water.
- 2 Due to rapid urbanization, infiltration of Rain Water into the sub soil has decreased drastically and recharging of ground water has reduced.
- 3 Capturing Rain Water in the land and augmenting water supply at a marginal cost.
- 4 Reducing pollution and contamination
- 5 Reducing the water bill.
- 6 Providing clean and safe water
- 7 Least capital investment with maximum benefits at household, industrial Agriculture levels.
- 8 To reduce power consumption.

By installing the above methods, conservation of Rain Water Harvesting at your JSS medical college Mysore it can be done effectively.

By implementing Rain Water Harvesting Technology, water quantity and quality gets improved. The water stored in Lakes can be used for Industrial purposes, Drinking, Cooking & Plantation also. This will keep the environment green.

Humidity of surrounding environment automatically improves; Temperature reduces 2-3⁰C compared to adjacent areas (This is called as “**Micro-Climate Area**”).

Note: Follow-up of work should be done immediately as per our guidelines and measures to be taken in this regard so as to implement effective green belt development & RWH works.

All materials like boulders, sand, jelly, charcoal and works like Earthwork excavation, PVC pipes fittings, plumbing Masin work (For Rain Water Harvesting) should be arranged by your side.

We are planning JSS medical college campus it is one of the Eco-Friendly Education Institution also a resource center for all the above said activities.

CONCLUSION :

Before monsoon rainy season we should complete the work.
Scientific way with rain water harvesting with expert guidance
Save Rain water save the mother Earth

Thanking you,

Yours Truly,

(N.J. DEVARAJA REDDY)

CEO

Geo Rain Water Board, Chitradurga

CLEANMAX IPP 1 PRIVATE LIMITED

Registered office: 13 A, Floor -13, Plot-400, The Peregrine, Apartment, Kismat Cinema, Prabhadevi, Mumbai – 400 025.

CIN Number – U74999MH2017PTC292173

To whomsoever it may concern

We, Cleanmax IPP1 Private Limited (CleanMax) hereby declare that CleanMax is operating the following rooftop solar PV power plants under the provisions of the power purchase agreement executed with JSS Academy of Higher Education and Research (JSS) dated 31.05.2018 (read along with Assignment agreement dated 30th January 2019):

| S.no | Location/Campus | Capacity (kWp) |
|------|----------------------|----------------|
| 1 | JSS Medical College | 264 kWp |
| 2 | JSS Dental College | 220 kWp |
| 3 | JSS Pharmacy College | 132 kWp |

Clean Max has not retained any carbon credits in any form from the Solar PV Power Plant, including but not limited to Renewable Energy Certificates (REC) for the period up to 31st March 2020 and JSS is free to claim any such credits as applicable.

On behalf of Cleanmax IPP1 Private Limited



Andrew Hines

Authorised Signatory

Date: 28th August 2020

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On behalf of Cleanmax IPP1 Private Limited



Andrew Hines

Authorised Signatory

Date: 28th August 2020

GREEN CAMPUS –A SMART CAMPUS: A SMALL INITIATIVE FROM JSS ACADEMY OF HIGHER EDUCATION AND RESEARCH, MYSURU

Solar Roof Top Projects taken up under the ambit of JSS AHER pursuant to the kick off meeting held on 30th Jan 2019 and following provisions are made:

Details of Solar Power Generation:

| Name of the Institution | Power generation (SRTP) | Date of Solar plant charging (of panels) / generation | Details of Feeders used for Solar power generation | | Impact of the initiative |
|-------------------------|-------------------------|---|--|--------------------------|--|
| | | | No. of feeders | Capacity | |
| JSSDCH | 172 kw | 19 th May 2019 | 04 | 50kw*2no's 36kw*2no's | Total Power dependency on KEB is reduced by 50% in JSS Medical Institution campus of JSS AHER @ Mysuru |
| JSSMC | 200 kw | 3 rd June 2019 | 04 | 50kw*4no's | |
| JSSCPM | 100 kw | 19 th July 2019 | 02 | 50kw*2no's | Total Power dependency on KEB is reduced by 70% in JSS College of Pharmacy campus of JSS AHER @ Mysuru |

A bird's eye view on the progress of Solar Roof Top Project (SRTP) from JSS AHER







JSS College of Pharmacy Mysuru
(RR NO : HT - 384 & Contract Demand 150 KVA)

| 1 | 2 | | | | 3 | | 4 | | 5 | 6 | 7 | | 8 | | | | | | | | | | | | | | |
|--------|---------------------|----------------------------|---|---------|-----------------------|----------|----------------------|--------------------|----------|----------|---------------------------|--------|---|-----|--------|--------------|-----|----------|------------------------------|------|----------|---------------------|---------|-----------------|-------|-------|--------|
| Month | KEB | | | | Solar units generated | | Total= (KEB & Solar) | | KEB Rate | Saving | Energy Denpedancy in % | | Remarks (Others charges from KEB) | | | | | | | | | | | | | | |
| | A | B | C | D | A | B | A | B | | | | | MD Charge (Minimun 85% or MD recorded which ever is higher) | | | Units Charge | | | Fuel adjustment charge (FAC) | | | Tax 9% (8F * 9%) | Arrears | Total Amount | | | |
| | Import Units KEB | Export Units from Solar | Actual Consumption of Units (2A-2B) | Amounts | Units | Amounts | Units (2C+3A) | Amounts (2D+3B) | | | A | B | A | B | C | D | E | F | Units | Rate | Amount | | | | Units | Paisa | Amount |
| | KEB | SRTP | MD | Rate | Amount | Units | Rate | Amount | | | Units | Paisa | Amount | | | | | | | | | | | | | | |
| Apr-19 | 44040 | 0 | 44040.00 | 396510 | 0 | 0 | 44040.00 | 396510 | 396510 | 0 | 100 | 0 | 143 | 200 | 28600 | 44040 | 7.6 | 334704 | 44040 | 0.07 | 3082.8 | 30123.36 | | 396510.2 | | | |
| May-19 | 36502.5 | 0 | 36502.50 | 339779 | 0 | 0 | 36502.50 | 339779 | 339779 | 0 | 100 | 0 | 128 | 210 | 26880 | 36502.5 | 7.8 | 284719.5 | 36502.5 | 0.07 | 2555.175 | 25624.755 | | 339779.4 | | | |
| Jun-19 | 24750 | 0 | 24750.00 | 251306 | 0 | 0 | 24750.00 | 251306 | 251306 | 0 | 100 | 0 | 128 | 210 | 26880 | 24750 | 7.8 | 193050 | 24750 | 0.12 | 2970 | 17374.5 | 11031 | 251305.5 | | | |
| Jul-19 | 38610 | 202.5 | 38407.50 | 358474 | 2878 | 17843.6 | 41285.50 | 376317.6 | 383067 | 6749.4 | 93.029 | 6.971 | 130 | 210 | 27300 | 38407.5 | 7.8 | 299578.5 | 38610 | 0.12 | 4633.2 | 26962.065 | | 358473.8 | | | |
| Aug-19 | 29175 | 1267.5 | 27907.50 | 267651 | 12354 | 76594.8 | 40261.50 | 344245.8 | 374045 | 29799.2 | 69.3156 | 30.684 | 128 | 210 | 26880 | 27907.5 | 7.8 | 217678.5 | 29175 | 0.12 | 3501 | 19591.065 | | 267650.6 | | | |
| Sep-19 | 28245 | 2032.5 | 26212.50 | 259445 | 14985 | 92907 | 41197.50 | 352352 | 389382 | 37030 | 63.6264 | 36.374 | 150 | 210 | 31500 | 26212.5 | 7.8 | 204457.5 | 26213 | 0.17 | 4456.21 | 18401.175 | | 259444.9 | | | |
| | | | | | | | | | | | | | 1.5 | 420 | 630 | | | | | | | | | | | | |
| Oct-19 | 25732.5 | 3442.5 | 22290.00 | 220003 | 16046 | 99485.2 | 38336.00 | 319488.2 | 359330 | 39841.8 | 58.1438 | 41.856 | 128 | 210 | 26880 | 22290 | 7.8 | 173862 | 22290 | 0.17 | 3789.3 | 15647.58 | -176 | 220002.9 | | | |
| Nov-19 | 25305 | 3472.5 | 21832.50 | 216211 | 16689 | 103471.8 | 38521.50 | 319682.8 | 360938 | 41255.2 | 56.6761 | 43.324 | 128 | 210 | 26880 | 21832.5 | 7.8 | 170293.5 | 21833 | 0.17 | 3711.61 | 15326.415 | | 216211.5 | | | |
| Dec-19 | 21997.5 | 4635 | 17362.50 | 176059 | 15627 | 96887.4 | 32989.50 | 272946.4 | 310330 | 37383.6 | 52.6304 | 47.37 | 128 | 210 | 26880 | 17362.5 | 7.8 | 135427.5 | 17363 | 0.09 | 1562.67 | 12188.475 | | 176058.6 | | | |
| Jan-20 | 18165 | 9142.5 | 9022.50 | 104401 | 19797 | 122741.4 | 28819.50 | 227142.4 | 274497 | 47354.6 | 31.3069 | 68.693 | 128 | 210 | 26880 | 9022.5 | 7.8 | 70375.5 | 9022.5 | 0.09 | 812.025 | 6333.795 | | 104401.3 | | | |
| Feb-20 | 24382.50 | 3300 | 21082.50 | 208021 | 18771 | 116380.2 | 39853.50 | 324401.2 | 369306 | 44904.8 | 52.9 | 47.1 | 128 | 210 | 26880 | 21082.5 | 7.8 | 164443.5 | 21082 | 0.09 | 1897.38 | 14799.915 | | 208020.8 | | | |
| Mar-20 | 24082.5 | 6337.5 | 17745.00 | 177748 | 18764 | 116336.8 | 36509.00 | 294084.8 | 342320 | 48235.2 | 48.6045 | 51.396 | 128 | 210 | 26880 | 17745 | 7.8 | 138411 | 17745 | 0 | 0 | 12456.99 | | 177748 | | | |
| Total | 340987.5 | 33832.5 | 307155 | 2975608 | 135911 | 842648.2 | 443066 | 3818256.2 | 4150810 | 332553.8 | | | | | 329950 | 307155 | | 2387001 | 308626 | | 32971.37 | 214830.1 | 10855 | 2975607 | | | |

JSSAHER Medical Institutions Campus, Mysuru.
(RR NO : HT - 166 & Contract Demand 450 KVA)

| Month | 2 | | | | 3 | | | | 4 | | 5 | 6 | 7 | | 8 | | | | | | | | | | | |
|--------|---------------------|----------------------------|---|----------|-----------------------|----------------|----------------|----------|----------------------|--------------------|----------|----------|----------------------------|---|-----|-----|--------------|---------|-----|------------------------------|---------|-------|---------------------|----------|--------------|-----------|
| | KEB | | | | Solar units generated | | | | Total= (KEB & Solar) | | KEB Rate | Saving | Energy Denpendancy in % | Remarks (Others charges from KEB) | | | | | | | | | | | | |
| | A | B | C | D | A | B | C | D | A | B | | | | MD Charge (Minimun 85% or MD recorded which ever is higher) | | | Units Charge | | | Fuel adjustment charge (FAC) | | | Tax 9% (8F * 9%) | Arrears | Total Amount | |
| | Import Units KEB | Export Units from Solar | Actual Consumption of Units (2A-2B) | Amounts | Units (MC) | Units (DCH) | Total Units | Amounts | Units (2C+3C) | Amounts (2D+3D) | | | | A | B | A | B | C | D | E | F | | | | | |
| | KEB | SRTP | MD | Rate | Amount | Units | Rate | Amount | Units | Paisa | | | | Amount | | | | | | | | | | | | |
| Apr-19 | 144450 | 0 | 144450 | 1314716 | 0 | 0 | 0 | 0 | 144450 | 1314716 | 1314716 | 0 | 100.00 | 0.00 | 443 | 200 | 88600 | 100000 | 7.6 | 760000 | 144450 | 0.07 | 10111.5 | 100404 | | 1314715.5 |
| | | | | | | | | | | | | | | | | | | 44450 | 8.0 | 355600 | | | | | | |
| May-19 | 153225 | 0 | 153225 | 1419601 | 0 | 11909 | 11909 | 73835.8 | 165134 | 1493436.8 | 1535134 | 41697.2 | 92.79 | 7.21 | 395 | 210 | 82950 | 100000 | 7.8 | 780000 | 153225 | 0.07 | 10725.8 | 109480.1 | | 1419600.8 |
| | | | | | | | | | | | | | | | | | | 53225 | 8.2 | 436445 | | | | | | |
| Jun-19 | 118150 | 75 | 118075 | 1096122 | 10033 | 14675 | 24708 | 153189.6 | 142783 | 1249311.6 | 1332678 | 83366.4 | 82.70 | 17.30 | 395 | 210 | 82950 | 100000 | 7.8 | 780000 | 118150 | 0.012 | 1417.8 | 83539.35 | | 1096122.2 |
| | | | | | | | | | | | | | | | | | | 18075 | 8.2 | 148215 | | | | | | |
| Jul-19 | 109425 | 450 | 108975 | 1023980 | 10152 | 12727 | 22879 | 141849.8 | 131854 | 1165829.8 | 1231164 | 65334.2 | 82.6482 | 17.352 | 383 | 210 | 80430 | 100000 | 7.8 | 780000 | 109425 | 0.12 | 13131 | 76823.55 | | 1023979.6 |
| | | | | | | | | | | | | | | | | | | 8975 | 8.2 | 73595 | | | | | | |
| Aug-19 | 101250 | 1025 | 100225 | 944791 | 12687 | 22920 | 35607 | 220763.4 | 135832 | 1165554.4 | 1267196 | 101641.6 | 73.79 | 26.21 | 383 | 210 | 80430 | 100000 | 7.8 | 780000 | 101250 | 0.12 | 12150 | 70366.05 | | 944791.05 |
| | | | | | | | | | | | | | | | | | | 225 | 8.2 | 1845 | | | | | | |
| Sep-19 | 93125 | 4325 | 88800 | 850504 | 20623 | 25592 | 46215 | 286533 | 135015 | 1137037 | 1266547 | 129510 | 65.7705 | 34.23 | 383 | 210 | 80430 | 88800 | 7.8 | 692640 | 88800 | 0.17 | 15096 | 62337.6 | | 850503.6 |
| Oct-19 | 96375 | 7275 | 89100 | 852928 | 25170 | 28585 | 53755 | 333281 | 142855 | 1186209 | 1337953 | 151744 | 62.3709 | 37.629 | 383 | 210 | 80430 | 89100 | 7.8 | 694980 | 89100 | 0.17 | 15147 | 62548.2 | -177 | 852928.2 |
| Nov-19 | 89025 | 10125 | 78900 | 764651 | 31703 | 29270 | 60973 | 378032.6 | 139873 | 1142683.6 | 1310793 | 168109.4 | 56.4083 | 43.592 | 383 | 210 | 80430 | 78900 | 7.8 | 615420 | 78900 | 0.17 | 13413 | 55387.8 | | 764650.8 |
| Dec-19 | 83575 | 9025 | 74550 | 720964 | 27321 | 27491 | 54812 | 339834.4 | 129362 | 1060798.4 | 1204710 | 143911.6 | 57.629 | 42.371 | 383 | 210 | 80430 | 74550 | 7.8 | 581490 | 74550 | 0.09 | 6709.5 | 52334.1 | | 720963.6 |
| Jan-20 | 85600 | 3975 | 81625 | 781752 | 38715 | 33948 | 72663 | 450510.6 | 154288 | 1232262.6 | 1429742 | 197479.4 | 52.9043 | 47.096 | 383 | 210 | 80430 | 81625 | 7.8 | 636675 | 81625 | 0.09 | 7346.25 | 57300.75 | | 781752 |
| Feb-20 | 81425 | 17675 | 63750 | 628170 | 37266 | 31738 | 69004 | 427824.8 | 132754 | 1055994.8 | 1235333 | 179338.2 | 48.0212 | 51.979 | 383 | 210 | 80430 | 63750 | 7.8 | 497250 | 63750 | 0.09 | 5737.5 | 44752.5 | | 628170 |
| Mar-20 | 76300 | 19800 | 56500 | 560793 | 39232 | 26854 | 66086 | 409733.2 | 122586 | 970526.2 | 1132504 | 161977.8 | 46.0901 | 53.91 | 383 | 210 | 80430 | 56500 | 7.8 | 440700 | 56500 | 0 | 0 | 39663 | | 560793 |
| Total | 1231925 | 73750 | 1158175 | 10958972 | 252902 | 265709 | 518611 | 3215388 | 1676786 | 14174360 | 15598470 | 1424110 | | | | | 978370 | 1158175 | | 9054855 | 1159725 | | 110985 | 814937 | -177 | 10958970 |



सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

Rs. 200

e-Stamp

Certificate No. : IN-KA82477273401156R
Certificate Issued Date : 26-Mar-2019 06:46 PM
Account Reference : NONACC (FI)/ kacrsf108/ KORAMANGALA8/ KA-BA
Unique Doc. Reference : SUBIN-KAKACRSFL0895759107787190R
Purchased by : EXECUTIVE SECRETARY JSS MEDICAL COLLEGE
Description of Document : Article 12 Bond
Description : POWER PURCHASE AGREEMENT
Consideration Price (Rs.) : 0
 (Zero)
First Party : EE O AND M N R MOHOLLA DIVISION CESC MYSORE
Second Party : EXECUTIVE SECRETORY JSS MEDICAL COLLEGE
Stamp Duty Paid By : EXECUTIVE SECRETORY JSS MEDICAL COLLEGE
Stamp Duty Amount(Rs.) : 200
 (Two Hundred only)

सत्यमेव जयते



Please write or type below this line

**POWER PURCHASE AGREEMENT FOR ROOFTOP
SOLAR PV PLANTS WITH NET METERING ARRANGEMENT**

This Power Purchase Agreement is entered into at (Place) Mysore on this ^{09th} day of March 2019 between Chamundi Electricity Supply Company Limited, Mysore (CESC, Mysore), a Government of Karnataka undertaking, being a company formed and incorporated in India under the Companies Act-1956, with its registered office located at No : 29, Vijaynagar 2nd Stage, Hinkal, Mysore-570017 Karnataka State, represented by **Executive Engineer, O&M Division, NR Moholla CESC, Mysore** hereinafter, referred to as the "CESC", Mysore" (which expression shall, unless repugnant to the context or meaning thereof include its successors and permitted assigns) as party of the first part

..1..

Statutory Alert:

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

J.S.S. Mahavidyapeeta,
Koramangala Road, Mysore

AND

Executive Secretary the consumer of CESC, Mysore. Residing at **JSS Medical College, Shivaratreshwara Nagara, Bannimantapa & Mysore-570015** hereinafter referred to as the "Seller" (which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns), as party of the second part.

Whereas,

a. The Seller intends to connect and operate the Solar Roof Top Photo Voltaic (SRTPV) system with CESC, Mysore HT/LT Distribution system for sale of Solar Power to CESC, Mysore in terms of the Karnataka Electricity Regulatory Commission (KERC) Order No. S/03/01 dated: 18.05.2018.

b. The Seller intends to install a SRTPV system of **372 KW (Three Hundred Seventy Two KW)** capacity on the existing roof top of the premises situated at **Executive Secretary, JSS Medical College, Shivaratreshwara Nagara, Bannimantapa & Mysore-570015** and bearing **RR No: HT-166** in the same premises under **NR Moholla Sub-Division of CESC, Mysore.**

c. The Seller intends to sell the energy generated from the SRTPV system to CESC, Mysore on net metering concept, from the date of commissioning of the SRTPV system.

Explanation: 'The Commissioning' means the stage at which the SRTPV system status generation the power for the use by the seller and injects surplus power if any, into the grid.

d. CESC, Mysore intends to purchase the energy generated by such SRTPV system, on net metering basis, at the tariff determined by the KERC.

Now therefore, in consideration of the foregoing premises, the parties, hereto, intending to be legally bound, hereby, agree as under:

1. Technical and Interconnection Requirements:


Seller shall ensure his SRTPV system complies with the following, technical and Inter connection requirement and shall:


1.1 Comply with the applicable standards and conditions in respect of integrating the SRTPV system with the distribution system.

1.2 Connect and operate the SRTPV system to CESC, Mysore's distribution system, in accordance with the State Grid Code and Distribution Code as amended from time to time.

1.3 Install, prior to connection of SRTPV system to CESC, Mysore distribution system, an inverter with an automatic inbuilt isolation device.

1.4 Provide external manual isolation mechanism with suitable locking facility so that SRTPV system will not back-feed into the CESC, Mysore's network, in case of power outage of the CESC, Mysore's distribution system, and it shall be accessible for CESC, Mysore to operate, if required, during maintenance / emergency conditions.


ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧೀಶಿಯರ್ (ವಿ)
ಬಿ.ವಿ.ಸ.ಸಿ.ನಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು


EXECUTIVE SECRETARY
J.S.S. Mahavidyalaya,
Ramanuja Road, Mysore

1.5 Install all the equipment of the SRTPV system, compliant with relevant International (IEEE/IEC) and Indian standards (BIS).

1.6 (a) SRTPV system shall be designed, engineered and constructed and operated by the seller or any other person on his behalf, with reasonable diligence subject to all applicable Indian laws, rules, Regulations as amended from time to time and orders having the force of law.

(b) The seller, shall commission the SRTPV system within six months from the date of approval of the PPA.

1.7 Adhere to the following power quality measures as per the International and Indian standards and/or such other measures stipulated by the KERC/ CESC, Mysore:

- a. Harmonic current: Harmonic current injections from a generation unit shall not exceed the limits specified in IEEE 519.
- b. Voltage at the injection point should be in the operating range of 80% to 110% of the nominal connected voltage.
- c. Flicker: Operation of Photovoltaic system shouldn't cause voltage flicker in excess of the limits stated in the relevant sections of IEC standards or other equivalent Indian standards, if any
- d. Frequency: When the system frequency exceeds the upper limit specified in the IEGC, as amended from time to time, the SRTPV system shall shift to island mode.
- e. DC Injection: Photovoltaic system should not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current into distribution system under any operating conditions.
- f. Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained.
- g. The SRTPV system in the event of voltage or frequency variations must island/disconnect itself as per IEGC/KEGC Regulations within the stipulated Period.


2. Safety:

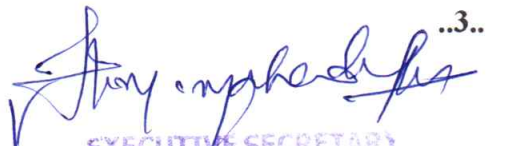
The seller shall comply with the following safety measures:

2.1 The seller shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Regulations, 2010.

2.2 The seller shall ensure that, the design, installation, maintenance and operation of the SRTPV system are in a manner conducive to the safety of the SRTPV system as well as the CESC, Mysore's distribution system.

2.3 If the Seller's SRTPV system either causes damage to and/or produces adverse effects on the other consumers' or CESC, Mysore's assets, Seller will disconnect SRTPV system immediately from the distribution system by himself or upon directions from the CESC, Mysore and rectify the same at his own cost before reconnection.


ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)
ಜಾ.ವಿ.ಸ.ನಿ.ನಿ., ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು


EXECUTIVE SECRETARY
J.S.S. Mahavidyalaya,
Ramanuja Road, MYSURU

3. Clearances and Approvals

The Seller shall obtain CESC, Mysore's and other statutory approvals and clearances before connecting the SRTPV system to the distribution system.

4. Access and Disconnection

4.1 CESC, Mysore shall have access to metering equipment and disconnecting device of SRTPV system, both automatic and manual, at all times.

4.2 In emergency or outage situation, where there is no access to a disconnecting device either automatic or manual, the CESC, Mysore shall have the right to disconnect power supply to the premises.

5. Liabilities

The Seller shall be solely responsible for availing any fiscal or other incentive provided by the State/ Central government, at his own expenses.

6. Commercial Settlement

a. The CESC, Mysore shall pay for the Net energy at **Rs. 3.56 per** KWh as determined by the KERC in the Order dated 18.05.2018, for the term of this agreement.

b. If for any reason the date of commissioning is delayed, beyond the date of commissioning agreed, the tariff payable by the CESC, Mysore shall be lower of the:

i) Tariff agreed to in this agreement

OR

ii) Any revised tariff, determined by the commission, prevailing on the date of commissioning.

OR

iii) 90% of tariff agreed to in this agreement.

c. The Seller shall pay the Electricity tax and other statutory levies, pertaining to SRTPV generation, as may be levied from time to time.

d. The seller shall not have any claim for compensation, if the Solar power generated by his SRTPV system could not be absorbed by the distribution system due to failure of power supply in the grid/ distribution system for the reasons, such as line clear, load shedding and line faults, whatsoever.

7. Metering:

7.1

The seller shall arrange to shift the existing meter to the generation side of SRTPV plant to measure solar power generation and install Bi-directional meter (whole current/CT operated) at the point of interconnection to the distribution system, at a suitable place in the premises accessible for recording export of energy from the SRTPV system to the grid and import of energy to the premises of the consumer from the grid. The bi directional meter shall comply with the Central Electricity Authority (Installation and operation of meters) Regulations, 2006 and shall have the following features:

ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಧೀಶವಾರ್ (ಜಿ)
ಜಿ.ಎ.ಎ.ಎ.ಎ.ಎ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು

..4..
EXECUTIVE SECRETARY
J.S.S. Mahavidyapeeta,
Ramanuja Road, MYSURU

- i. Separate registers, for recording export and import energy with facility to download by Meter Reading Instrument (MRI).
- ii. KVA, kW and kVAR measuring registers for both import and export of energy.
- iii. The meter shall have RS232 (or higher) communication optical port / Radio Frequency (RF) port to support Automatic Meter Reading (AMR).

8. BILLING AND PAYMENT:

8.1 CESC, Mysore shall issue monthly electricity bill for the net energy on the scheduled date of meter reading.

8.2 In case, the exported energy is more than the imported energy, CESC, Mysore shall pay for the net energy exported as per Tariff agreed in this agreement within 30 days from the date of issue of bill duly adjusting the fixed charges and electricity duty if any.

8.3 In case, the exported energy is less than the imported energy, the seller shall pay CESC, Mysore for the net energy imported, as per the prevailing retail supply tariff determined by the Commission from time to time.

8.4 CESC, Mysore shall pay interest at the same rates, as is being levied on the consumers, for late payment charges in case of any delay beyond 30 (thirty) days period from the date of issue of bill in payment, for the Net energy exported.

Explanation:

Net energy means the difference of meter readings of energy injected by the SRTPV system into the grid (export) and the energy drawn from the grid for use by the seller (import) recorded in the bi-directional meter.

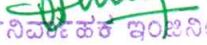
9. Term and Termination of the Agreement

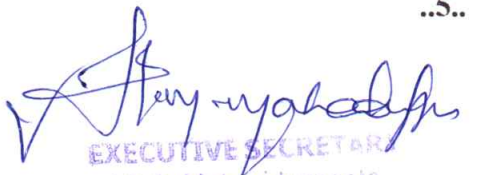
9.1 This agreement shall be in force for a period of 25 years from the date of commissioning of the SRTPV system unless terminated otherwise as provided here under.

9.2 If the CESC, Mysore commits any breach of the terms of the Agreement, Seller shall serve a written notice specifying the breach and calling upon the CESC, Mysore to remedy/ rectify the same within 30 (thirty) days or at such other period and at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, Seller may terminate the agreement by delivering the termination notice, if the CESC, Mysore fails to remedy/ rectify the same.

9.3 If the Seller commits any breach of the terms of the Agreement, CESC, Mysore shall serve a written notice specifying the breach and calling upon the seller to remedy/ rectify the same within 30 (thirty) days or at such other period and at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, CESC, Mysore may terminate the agreement by delivering the termination notice, if the seller fails to remedy/ rectify the same.

..5..


ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)
ಬಿ.ವಿ.ನಿ.ನಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು


EXECUTIVE SECRETARY
J.S.S. Mahavidyapeeta,
Ramanuja Road, MYSURU





9.4 Upon termination of this Agreement, seller shall cease to supply power to the distribution system and any injection of power shall not be paid for by the CESC, Mysore.

10. Dispute Resolution: All the disputes between the parties arising out of or in connection with this agreement shall be first tried to be settled through mutual negotiation.

The parties shall resolve the dispute in good faith and in equitable manner.

In case of failure to resolve the dispute, either of the parties may approach the appropriate Forum.

IN WITNESS WHEREOF, the Seller and the CESC, Mysore have entered into this Agreement to be executed as of the date and year first set forth above.

| For AND ON BEHALF OF | |
|---|---|
| For CESC, Mysore | For SELLER |
| By : Name: | By (Name): Executive Secretary. RR No: HT-166 |
| Designation:  |  |
| Address: ಚಾರ್ಜ್ ನಿರ್ವಹಣೆ ಕಛೇರಿ ಜಿ.ವಿ.ಸಿ.ಸಿ.ನಿ. ಕಾರ್ಯ ಮಠ ಎಸ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು | Address: JSS Medical College, Shivaratreshwara Nagara, Bannimantapa & Mysore-570015 <small>J.S.S. Mahavidyapeeta, Ramanuja Road, MYSURU</small> |
| WITNESS: In Presence of Name: | WITNESS: In Presence of Name:  |
| Designation : | Designation : |
| WITNESS: In Presence of Name: | WITNESS: In Presence of Name:  |
| Designation : | Designation : |



सत्यमेव जयते

INDIA NON JUDICIAL

Government of Karnataka

Rs. 200

e-Stamp

Certificate No. : IN-KA82477145623892R
Certificate Issued Date : 26-Mar-2019 06:46 PM
Account Reference : NONACC (FI)/ kacrsf108/ KORAMANGALA8/ KA-BA
Unique Doc. Reference : SUBIN-KAKACRSFL0895759385561858R
Purchased by : EXECUTIVE SECRETORY JSS PHARMACY COLLEGE
Description of Document : Article 12 Bond
Description : POWER PURCHASE AGREEMENT
Consideration Price (Rs.) : 0
 (Zero)
First Party : EE O AND M N R MOHOLLA DIVISION CESC MYSORE
Second Party : EXECUTIVE SECRETORY JSS PHARMACY COLLEGE
Stamp Duty Paid By : EXECUTIVE SECRETORY JSS PHARMACY COLLEGE
Stamp Duty Amount(Rs.) : 200
 (Two Hundred only)

सत्यमेव जयते



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**POWER PURCHASE AGREEMENT FOR ROOFTOP
SOLAR PV PLANTS WITH NET METERING ARRANGEMENT**

This Power Purchase Agreement is entered into at (Place) Mysore on this ^{29th} day of March 2019 between Chamundi Electricity Supply Company Limited, Mysore (CESC, Mysore), a Government of Karnataka undertaking, being a company formed and incorporated in India under the Companies Act-1956, with its registered office located at No : 29, Vijaynagar 2nd Stage, Hinkal, Mysore-570017 Karnataka State, represented by **Executive Engineer, O&M Division, NR Moholla CESC, Mysore** hereinafter referred to as the "CESC", Mysore" (which expression shall, unless repugnant to the context or meaning thereof include its successors and permitted assigns) as party of the first part

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ಕಾರ್ಯನಿರ್ವಹಣೆ ಇಂಜಿನಿಯರ್ (ಎ)

Statutory Alert: ನ.ನಿ. ಕಾರ್ಯ ಮುಖ್ಯ ಕಾರ್ಯನಿರ್ವಾಹಕರು

1. The authenticity of this Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

EXECUTIVE SECRETARY

Ramanuja Road, MYSORE

AND

Executive Secretary the consumer of CESC, Mysore. Residing at **Plot No: 172, JSS Pharmacy College, Shivaratreshwara Nagara, Bannimantapa & Mysore-570015** hereinafter referred to as the "Seller" (which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns), as party of the second part.

Whereas,

a. The Seller intends to connect and operate the Solar Roof Top Photo Voltaic (SRTPV) system with CESC, Mysore HT/LT Distribution system for sale of Solar Power to CESC, Mysore in terms of the Karnataka Electricity Regulatory Commission (KERC) Order No. S/03/01 dated: 18.05.2018.

b. The Seller intends to install a SRTPV system of **100 KW (One Hundred KW)** capacity on the existing roof top of the premises situated at **Executive Secretary, Plot No: 172, JSS Pharmacy College, Shivaratreshwara Nagara, Bannimantapa & Mysore-570015** and bearing **RR No: HT-384** in the same premises under **NR Moholla Sub-Division of CESC, Mysore.**

c. The Seller intends to sell the energy generated from the SRTPV system to CESC, Mysore on net metering concept, from the date of commissioning of the SRTPV system.

Explanation: 'The Commissioning' means the stage at which the SRTPV system status generation the power for the use by the seller and injects surplus power if any, into the grid.

d. CESC, Mysore intends to purchase the energy generated by such SRTPV system, on net metering basis, at the tariff determined by the KERC.

Now therefore, in consideration of the foregoing premises, the parties, hereto, intending to be legally bound, hereby, agree as under:

1. Technical and Interconnection Requirements:

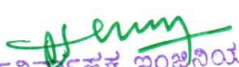
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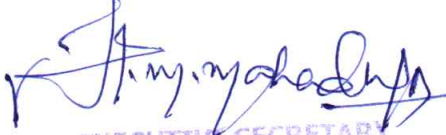
1.1 Comply with the applicable standards and conditions in respect of integrating the SRTPV system with the distribution system.

1.2 Connect and operate the SRTPV system to CESC, Mysore's distribution system, in accordance with the State Grid Code and Distribution Code as amended from time to time.

1.3 Install, prior to connection of SRTPV system to CESC, Mysore distribution system, an inverter with an automatic inbuilt isolation device.

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ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)
ಜಾ.ವಿ.ಸ.ನಿ.ನಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ಎಸ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು

 ..2..
EXECUTIVE SECRETARY
J.S.S. Mahavidyapeela,
Ramanuja Road, MYSURU

1.5 Install all the equipment of the SRTPV system, compliant with relevant International (IEEE/IEC) and Indian standards (BIS).

1.6 (a) SRTPV system shall be designed, engineered and constructed and operated by the seller or any other person on his behalf, with reasonable diligence subject to all applicable Indian laws, rules, Regulations as amended from time to time and orders having the force of law.

(b) The seller, shall commission the SRTPV system within six months from the date of approval of the PPA.

1.7 Adhere to the following power quality measures as per the International and Indian standards and/or such other measures stipulated by the KERC/ CESC, Mysore:

- a. Harmonic current: Harmonic current injections from a generation unit shall not exceed the limits specified in IEEE 519.
- b. Voltage at the injection point should be in the operating range of 80% to 110% of the nominal connected voltage.
- c. Flicker: Operation of Photovoltaic system shouldn't cause voltage flicker in excess of the limits stated in the relevant sections of IEC standards or other equivalent Indian standards, if any
- d. Frequency: When the system frequency exceeds the upper limit specified in the IEGC, as amended from time to time, the SRTPV system shall shift to island mode.
- e. DC Injection: Photovoltaic system should not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current into distribution system under any operating conditions.
- f. Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained.
- g. The SRTPV system in the event of voltage or frequency variations must island/disconnect itself as per IEGC/KEGC Regulations within the stipulated Period.


2. Safety:

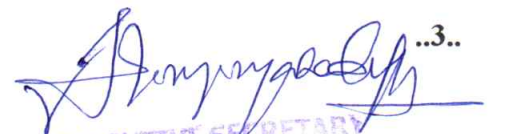
The seller shall comply with the following safety measures:

2.1 The seller shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Regulations, 2010.

2.2 The seller shall ensure that, the design, installation, maintenance and operation of the SRTPV system are in a manner conducive to the safety of the SRTPV system as well as the CESC, Mysore's distribution system.

2.3 If the Seller's SRTPV system either causes damage to and/or produces adverse effects on the other consumers' or CESC, Mysore's assets, Seller will disconnect SRTPV system immediately from the distribution system by himself or upon directions from the CESC, Mysore and rectify the same at his own cost before reconnection.


ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)
ಜಾ.ವಿ.ಸ.ನಿ.ನಿ.. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು


EXECUTIVE SECRETARY
J.S.S. Mahavidyalaya,
Tamanuja Road, MYSURU

3. Clearances and Approvals

The Seller shall obtain CESC, Mysore's and other statutory approvals and clearances before connecting the SRTPV system to the distribution system.

4. Access and Disconnection

4.1 CESC, Mysore shall have access to metering equipment and disconnecting device of SRTPV system, both automatic and manual, at all times.

4.2 In emergency or outage situation, where there is no access to a disconnecting device either automatic or manual, the CESC, Mysore shall have the right to disconnect power supply to the premises.

5. Liabilities

The Seller shall be solely responsible for availing any fiscal or other incentive provided by the State/ Central government, at his own expenses.

6. Commercial Settlement

a. The CESC, Mysore shall pay for the Net energy at **Rs. 3.56 per** KWh as determined by the KERC in the Order dated 18.05.2018, for the term of this agreement.

b. If for any reason the date of commissioning is delayed, beyond the date of commissioning agreed, the tariff payable by the CESC, Mysore shall be lower of the:

i) Tariff agreed to in this agreement

OR

ii) Any revised tariff, determined by the commission, prevailing on the date of commissioning.

OR

iii) 90% of tariff agreed to in this agreement.

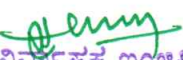
c. The Seller shall pay the Electricity tax and other statutory levies, pertaining to SRTPV generation, as may be levied from time to time.


d. The seller shall not have any claim for compensation, if the Solar power generated by his SRTPV system could not be absorbed by the distribution system due to failure of power supply in the grid/ distribution system for the reasons, such as line clear, load shedding and line faults, whatsoever.

7. Metering:

7.1

The seller shall arrange to shift the existing meter to the generation side of SRTPV plant to measure solar power generation and install Bi-directional meter (whole current/CT operated) at the point of interconnection to the distribution system, at a suitable place in the premises accessible for recording export of energy from the SRTPV system to the grid and import of energy to the premises of the consumer from the grid. The bi directional meter shall comply with the Central Electricity Authority (Installation and operation of meters) Regulations, 2006 and shall have the following features:


ಕಾರ್ಯನಿರ್ವಹಣೆ ಇಂಜಿನಿಯರ್ (ಸಿ)
ಟಾ.ವಿ.ಸ.ನಿ.ನಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾ
ಎಸ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು


EXECUTIVE SECRETARY
J.S.S. Mahavidyalaya,
Ramanuja Road, MYSURI

..4..

- i. Separate registers, for recording export and import energy with facility to download by Meter Reading Instrument (MRI).
- ii. KVA, kW and kVAR measuring registers for both import and export of energy.
- iii. The meter shall have RS232 (or higher) communication optical port / Radio Frequency (RF) port to support Automatic Meter Reading (AMR).

8. BILLING AND PAYMENT:

8.1 CESC, Mysore shall issue monthly electricity bill for the net energy on the scheduled date of meter reading.

8.2 In case, the exported energy is more than the imported energy, CESC, Mysore shall pay for the net energy exported as per Tariff agreed in this agreement within 30 days from the date of issue of bill duly adjusting the fixed charges and electricity duty if any.

8.3 In case, the exported energy is less than the imported energy, the seller shall pay CESC, Mysore for the net energy imported, as per the prevailing retail supply tariff determined by the Commission from time to time.

8.4 CESC, Mysore shall pay interest at the same rates, as is being levied on the consumers, for late payment charges in case of any delay beyond 30 (thirty) days period from the date of issue of bill in payment, for the Net energy exported.

Explanation:

Net energy means the difference of meter readings of energy injected by the SRTPV system into the grid (export) and the energy drawn from the grid for use by the seller (import) recorded in the bi-directional meter.


9. Term and Termination of the Agreement


9.1 This agreement shall be in force for a period of 25 years from the date of commissioning of the SRTPV system unless terminated otherwise as provided here under.

9.2 If the CESC, Mysore commits any breach of the terms of the Agreement, Seller shall serve a written notice specifying the breach and calling upon the CESC, Mysore to remedy/ rectify the same within 30 (thirty) days or at such other period and at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, Seller may terminate the agreement by delivering the termination notice, if the CESC, Mysore fails to remedy/ rectify the same.

9.3 If the Seller commits any breach of the terms of the Agreement, CESC, Mysore shall serve a written notice specifying the breach and calling upon the seller to remedy/ rectify the same within 30 (thirty) days or at such other period and at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, CESC, Mysore may terminate the agreement by delivering the termination notice, if the seller fails to remedy/ rectify the same.

..5..


ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ)
ಜಾ.ವಿ.ಸ.ನಿ.ನಿ.. ಕಾರ್ಯ ಮಟ್ಟ ಪಾಲನೆ
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EXECUTIVE SECRETARY
J.S.S. Manavidyapeeta,
Tamanuja Road, MYSURI

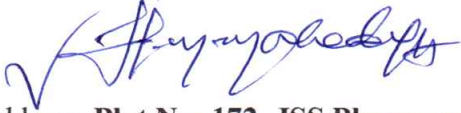
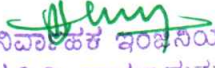


9.4 Upon termination of this Agreement, seller shall cease to supply power to the distribution system and any injection of power shall not be paid for by the CESC, Mysore.

10. **Dispute Resolution:** All the disputes between the parties arising out of or in connection with this agreement shall be first tried to be settled through mutual negotiation.

The parties shall resolve the dispute in good faith and in equitable manner.

In case of failure to resolve the dispute, either of the parties may approach the appropriate Forum.

IN WITNESS WHEREOF, the Seller and the CESC, Mysore have entered into this Agreement to be executed as of the date and year first set forth above.

| For AND ON BEHALF OF | |
|---|---|
| For CESC, Mysore | For SELLER |
| By : Name: | By (Name): Executive Secretary. RR No: HT-384 |
| Designation: |  |
| Address:  ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ) ಬಾ.ವಿ.ಸ.ಸಿ.ಸಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು | Address: Plot No: 172, JSS Pharmacy College, Shivaratreshwara Nagara, Bannimantapa & Mysore-570015 EXECUTIVE SECRETARY J.S.S. Mahavidyapeeta, Tamanuia Road, Mysore |
| WITNESS: In Presence of Name: | WITNESS: In Presence of Name:  |
| Designation : | Designation : |
| WITNESS: In Presence of Name: | WITNESS: In Presence of Name:  |
| Designation : | Designation : |



STATEMENT SHOWING THE DETILS OF DIFFERENT TYPES OF TREES EXISTING AT JSS AHER CAMPUS

| Sl. No | Scientific name | Common name | Total no's | Uses |
|--------|----------------------|-----------------------------------|------------|--|
| 1 | Morinda coreia | Indian mulberry ಮಡ್ಡಿ ಮರ | 10 | The bark is tonic, astringent, febrifuge and antiseptic. |
| 2 | Roystonea regia | Royal palm ರಾಯಲ್ ಪಾಮ್ | 67 | Landscape usages |
| 3 | Pithecellobium dulce | Monkey pod ಬೆಟ್ಟದ ಹುಣಸೆ | 25 | Leaf decoction is taken for leprosy, jaundice and for proper growth of hairs. Plant paste is applied for poisonous bites. |
| 4 | Terminalia arjuna | White murdah ಅರ್ಜುನ್ ಮರ | 05 | Bark decoction is the best cardiac tonic and highly recommended for nervous debility. It also helps to reduce high blood pressure. |
| 5 | Terminalia catappa | Indian almond tree ಕಾಡು ಬಾದಾಮಿ | 07 | Bark powder is used as tooth powder in case of gum diseases, mouth ulcers and thrush in tongue. Leaves cooked with rice are eaten for gastritis. |
| 6 | Araucaria columnaris | Christmas tree ಕ್ರಿಸ್ತಮಸ್ ಮರ | 04 | Landscape usages |
| 7 | Pongamia pinnata | Hongay oil tree ಹೊಂಗೆ ಮರ | 64 | Bark cooked with rice is eaten for three days in case of uterine diseases and conception failure. Bath with leaf decoction is recommended for arthritis and rheumatism. |
| 8 | Grevillea robusta | Southern silky oak -ಸಿಲ್ವರ್ ಮರ | 56 | Ornamental Fuel |
| 9 | Azadirachta indica | Neem ಬೇವಿನ ಮರ | 52 | Bark powder is recommended for septic wounds. Neem oil is applied for healing wounds and ulcers. |
| 10 | Albizia lebbek | East Indian walnut ಬಾಗೆ ಮರ | 28 | Seed decoction is given for piles and to stop purgation. Leaf and bark powder are applied for ulcers as well as snake bite. |
| 11 | Swietenia mahagoni | West Indian mahogany ಮಹಾಗನಿ ಮರ | 14 | Timber |
| 12 | Cocos nucifera | Coconut ತೆಂಗಿನ ಮರ | 70 | Tender coconut water is the antidote for indigestion caused by beaten rice. Paste of leaf ash fried with ghee is applied for old chronic ulcers and wounds |
| 13 | Areca catechu | Arecanut palm ಅಡಿಕೆ ಮರ | 20 | Decoction made of its root, Cocos nucifera root and salt are used as a gargle for toothache. Young fruit (ground) is given as a sour agent for thrush in tongue. |
| 14 | Delonix regia | Royal gulmohur ಕತ್ತಿಕಾಯಿ ಮರ | 17 | Antispasmodic and antirheumatic. |

| | | | | |
|----|--------------------------|--------------------------------------|-----|---|
| 15 | Ficus benghalensis | Banyan tree ಆಲದ ಮರ | 02 | White terminal portion of prop root ground in milk is given for burning sensation and is a general tonic. Paste prepared from its bark, castor oil, bee wax and turmeric are used as a quick healer for cracks in feet. |
| 16 | Ficus racemosa | Cluster fig ಅತ್ತಿ ಮರ | 02 | Fruit juice is used for gastritis. Bark paste is applied to ulcers or boils on body due to excessive heat. |
| 17 | | ರೈಟ್ಟು ಮರ | 10 | |
| 18 | Wrightia tinctoria | Pala indigo ಬೆಪ್ಪಲ ಮರ | 02 | Leaf paste is filled into dental cavities for toothache and cavities. Leaf paste in coconut oil is applied for skin diseases. |
| 19 | Bauhinia purpurea | Butterfly tree ಬಸವನ ಪಾದ ಮರ | 03 | Stem bark decoction is given for diarrhoea, ulcers, swellings, leprosy, cough and menstrual irregularities |
| 20 | Lagerstroemia microcarpa | Virgin tree of the forest ನಂದಿ ಮರ | 02 | Leaf or young shoot tip paste is applied for cuts, wounds and for skin diseases |
| 21 | Albizia amara | Bitter albizzia ಸುಜಲ್ ಮರ | 02 | Medicinal and agroforestry |
| 22 | Ficus religiosa | Peepal tree ಅರಳಿ ಮರ | 08 | Young shoot tip ground and boiled in milk is given for dysentery and amoebiasis |
| 23 | Millingtonia hortensis | Indian cork tree ಆಕಾಶ್ ಮಲ್ಲಿಗೆ | 42 | Bark decoction is recommended internally for fever, cold, indigestion and diarrhoea |
| 24 | Acacia catechu | Red cutch ತಾರೆ ಮರ | 01 | Twig is used as toothbrush for strengthening teeth and gums. Bark decoction is used as a gargle for mouth ulcers |
| 25 | Plumeria rubra | Temple tree ದೇವಗಣಗಲೆ | 32 | Bark cooked with rice is taken for jaundice, venereal diseases and joint pain |
| 26 | Saraca asoca | Asoka tree ಅಶೋಕ ಮರ | 171 | Bark decoction is used for menstrual problems, dysentery, diarrhoea and as a blood purifier |
| 27 | Ficus benamina | Golden fig ಜಾವ ಹತ್ತಿ ಮರ | 01 | Medicinal and agroforestry |
| 28 | Artocarpus heterophyllus | Jack fruit tree ಹಲಸಿನ ಮರ | 07 | Fruit is nutritive and it clears excretory system. Seeds are sweet with aphrodisiac action |
| 29 | Aegle marmelos | Bael fruit ಬಿಲ್ವಪತ್ರ ಮರ | 03 | Leaf juice is given to children suffering from stomach-ache. Leaf is eaten for diabetes. |
| 30 | Sapindus laurifolia | Soapnut ಅಂಟವಾಳ ಮರ | 01 | Folk medicine and insecticide |
| 31 | Thespesia populnea | Cork tree ಬುಗರಿ ಮರ | 05 | Fruit and bark decoction is much used to wash for septic wounds and ulcers |
| 32 | Prosopis cineraria | Indian mesoquite ಬನ್ನಿ ಮರ | 02 | Astringent and coolant |
| 33 | | ತಬ್ಬುಬಿಯ ಮರ | 28 | |

| | | | | |
|----|-------------------------|-------------------------------------|------|---|
| 34 | Tabebuia aurea | Caribbean trumpet-tree ಹಳದಿ ಪಾದಿ | 40 | Ornamental and timber |
| 35 | Tamarindus indica | Tamarind tree ಹುಣಸೆ ಮರ | 09 | Leaf decoction is poured over the body parts to relieve rheumatic pain. Steam of boiled fruit juice is given for pain. |
| 36 | | ಯಾಒ ಮರ | 02 | |
| 37 | Cassia javanica | Pink shower ಕ್ಯಾಸಿಯ ಮರ | 06 | Widely planted as an ornamental. The wood is used for general construction, furniture and cabinet making |
| 38 | Cassia fistula | Indian laburnum ಕಕ್ಕೆ ಮರ | 09 | Bark paste is applied for skin diseases. Juice collected from heated fruit is taken to expel intestinal worms |
| 39 | | ನೀಲಿ ಪಾದ್ರಿ ಮರ | 02 | |
| 40 | Alstonia scholaris | Indian devil tree ಹಾಲೆ ಮರ | 01 | Bark is used to treat asthma, heart disease, for chronic ulcers, and other ailments. Powder mixed with ginger is given to new mothers the first day after birthing to cleanse the blood and promote lactation. |
| 41 | Santalum album | Indian sandalwood ಗಂಧದ ಮರ | 08 | Sandalwood oil was used traditionally to treat skin diseases, acne, dysentery, gonorrhea, |
| 42 | Callistemon | Bottlebrush tree ಬರಲ ಬ್ರಶ್ | 17 | Antibacterial and ornamental |
| 43 | Holoptelea integrifolia | Indian elm ತಾವನೆ ಮರ | 04 | Oil prepared from its bark is used for chronic ulcers. Bark paste is applied to the spot of pit viper bite and to arrest bleeding from wounds |
| 44 | Hevea brasiliensis | Rubber ರಬ್ಬರ್ ಮರ | 04 | Rubber and timber |
| 45 | Mangifera indica | Mango tree ಮಾವಿನ ಮರ | 06 | Bark cooked with rice is given for gastritis. Seed kernel ground in butter milk is applied on head for dandruff |
| 46 | Michalea cham paca | Golden champa ಸಂಪಿಗೆ ಮರ | 18 | Agroforestry, fuels and oil |
| 47 | Elaeocarpus ganitrus | Woodenbegar ರುದ್ರಾಕ್ಷಿ ಮರ | 02 | Ground seed is given to small children for increasing intellect and memory power. Wearing its seeds as necklace is said to control CNS. |
| 48 | Melia dubia | Malabar neem wood ಹೆಬ್ಬೆ ಬೇವು ಮರ | 18 | Leaf juice or extract is used both externally and internally as a haemostatic agent |
| 49 | Annona reticulata | Bullock's heart ರಾಂಪಾಲ್ ಮರ | 01 | Fruit is beneficial for tuberculosis. Dried fruit extract is given for dysentery |
| 50 | Syzygium cumini | Black plum ನೇರಳೆ ಮರ | 02 | Seed powder or bark decoction is much used for diabetes. Bark decoction is recommended for ulcers in the mouth, diabetes, and liver disorders |
| 51 | | ಗೋಲ್ಡನ್ ಸ್ಟೆಫಿನ್ | 35 | |
| 52 | Tectona grandis | Teak ಟೀಕ್ | 1450 | Fresh leaf and fruit extract are applied for mouth ulcers and itches in the body. Seed and flower decoctions are diuretic |

Various trees available in JSS College of Pharmacy, Ooty campus

| Sl No. | Name of the Tree | Nos. available |
|---------------|-------------------------|-----------------------|
| 1. | Acacia | 39 |
| 2. | Cypress | 10 |
| 3. | Eucalyptus | 21 |
| 4. | Jacaranda | 06 |
| 5. | Silver Oak | 17 |
| 6. | Pynes | 01 |
| 7. | Plums | 31 |
| 8. | Peaches | 10 |
| 9. | Bottle Brush | 19 |
| 10. | Photo Creeper | 20 |
| 11. | Jungle Wood | 75 |
| TOTAL | | 249 |

Sd/-
PRINCIPAL

ENERGY CONSERVATION MEASURES

- Light Bulb Replacement
- Sticker Reminders as part of their 'Energy Awareness Campaign' is 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 in guest houses.

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 KVA | Motor Constant | Date of Connection / Service | Generator |
|---------------|----------|--------------------------|----------------|------------------------------|---|
| JSSMI Campus | HT – 166 | 450 KVA | 2500 | May 1995 | 2 dedicated generators of 450 KVA & 500 KVA capacity is provided with auto switch over facility |
| JSSCPM Campus | HT – 384 | 150 KVA | 750 | May 1995 | 82.5 KVA & 160 KVA |
| JSSCPO Campus | HT - 107 | 150 KVA | 200 | May 1995 | 100 KVA, 125 KVA & 150 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



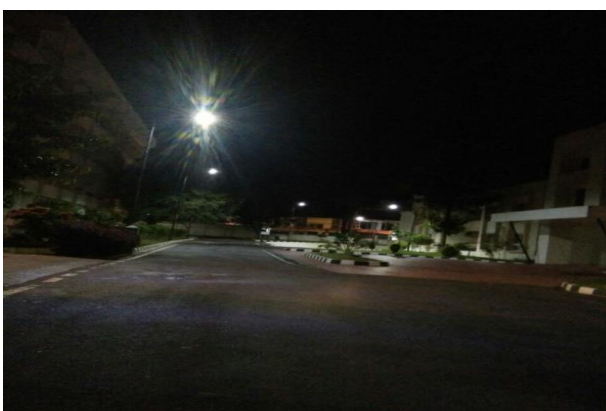
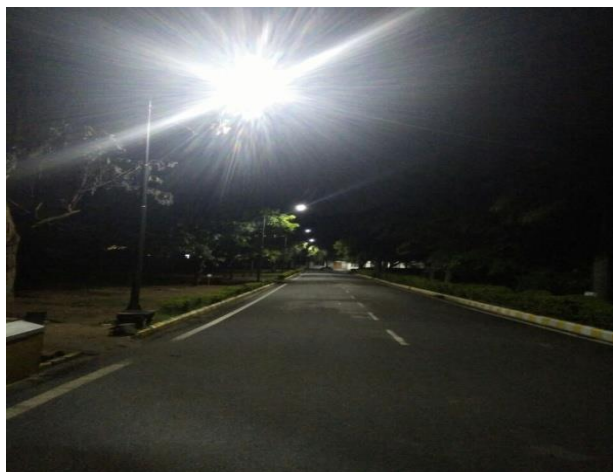


Summary Of Power Generation With The Aid Of Solar Panels

| 1 | 2 | | | | 3 | | 4 | | 5 | 6 |
|--------------|------------------|-------------------------|-------------------------------------|-----------------|-----------------------|----------------|----------------|-----------------|-----------------|----------------|
| Month | KEB | | | | Solar Units Generated | | Total | | 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 | Total Units | Amounts | Units | Amounts (2D+3B) | | |
| Apr-19 | 144450 | 0 | 144450 | 1314716 | 0 | 0 | 144450 | 1314716 | 1314716 | 0 |
| May-19 | 153225 | 0 | 153225 | 1419601 | 11909 | 73835.8 | 165134 | 1493436.8 | 1535134 | 41697.2 |
| Jun-19 | 118150 | 75 | 118075 | 1096122 | 24708 | 153189.6 | 142783 | 1249311.6 | 1332678 | 83366.4 |
| Jul-19 | 109425 | 450 | 108975 | 1023980 | 22879 | 141849.8 | 131854 | 1165829.8 | 1231164 | 65334.2 |
| Aug-19 | 101250 | 1025 | 100225 | 944791 | 35607 | 220763.4 | 135832 | 1165554.4 | 1267196 | 101641.6 |
| Sep-19 | 93125 | 4325 | 88800 | 850504 | 46215 | 286533 | 135015 | 1137037 | 1266547 | 129510 |
| Oct-19 | 96375 | 7275 | 89100 | 852928 | 53755 | 333281 | 142855 | 1186209 | 1337953 | 151744 |
| Nov-19 | 89025 | 10125 | 78900 | 764651 | 60973 | 378032.6 | 139873 | 1142683.6 | 1310793 | 168109.4 |
| Dec-19 | 83575 | 9025 | 74550 | 720964 | 54812 | 339834.4 | 129362 | 1060798.4 | 1204710 | 143911.6 |
| Jan-20 | 85600 | 3975 | 81625 | 781752 | 72663 | 450510.6 | 154288 | 1232262.6 | 1429742 | 197479.4 |
| Feb-20 | 81425 | 17675 | 63750 | 628170 | 69004 | 427824.8 | 132754 | 1055994.8 | 1235333 | 179338.2 |
| Mar-20 | 76300 | 19800 | 56500 | 560793 | 66086 | 409733.2 | 122586 | 970526.2 | 1132504 | 161977.8 |
| Total | 1231925 | 73750 | 1158175 | 10958972 | 518611 | 3215388 | 1676786 | 14174360 | 15598470 | 1424110 |

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)

Accredited "A+" Grade by NAAC

