



**COLLEGE OF NURSING,
CHRISTIAN MEDICAL COLLEGE, VELLORE-632004**



Recognized by the Indian Nursing Council &
Affiliated to the Tamil Nadu Dr. MGR Medical University, Chennai, Tamil Nadu
Ida Scudder Road, Vellore-632004

Email Id: deancon@cmcvellore.ac.in

Telephone : 0416-228-7002/7003/7004

7.1.4 - Bio-Medical Waste Management, Handling Methodology and agreement



***BIO-MEDICAL WASTE MANAGEMENT-REPORT OF
CHRISTIAN MEDICAL COLLEGE HOSPITAL,
CMC VELLORE***



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I. Bio Medical Waste Management Plan

Preparation of waste management plan should be done in consultation with members of the waste management committee and the local health authority. Equipment, procedures and practices should be selected on the basis of practicality, cost effectiveness and feasibility.

The waste management plan should include

- ✚ Detailed specification of containers, bags for waste collection.
- ✚ Paths for waste collection trolleys through the hospital.
- ✚ Timetable of the frequency of collection of waste from the various areas.
- ✚ Estimated cost of containers, bags, ties, labels, trolleys and all other equipment to be used in the waste management.
- ✚ Definitions of the duties and responsibilities in terms of segregation, pretreatment, handling and storage for each of the different categories of hospital personnel who through their daily work will generate hospital waste.
- ✚ Estimate of the number and categories of personnel required for collection, transportation, storage and treatment; the responsibilities of these personnel.
- ✚ Procedures for segregation, treatment, storage and handling of wastes requiring special treatment before disposal.
- ✚ Contingency plans showing arrangements in case of breakdown or maintenance.
- ✚ Training courses and programmes.
- ✚ Emergency procedures.
- ✚ Occupational safety.
- ✚ Policy for recycling.



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II. Source Segregation of Hospital Waste.

Segregation: Biomedical waste and general waste must not be mixed and must be collected, stored and transported separately.

Color coding for waste containers: Biomedical and general waste should be segregated at source and placed in color plastic bags and containers of defined specification prior to collection and disposal.

All HCF should adopt the following color coding*. (as given in the Schedule II of BMW rules*2016, Annexure A) as follows.

- ✚ **Yellow bags** - Only for infectious Gauze, cotton, dressings etc. Anatomical waste also to be disposed in this bag.
- ✚ **Red bag** - Only for infectious plastic waste and personal protective equipment. Blood bag, IV tubes, catheters, gloves, mask etc.
- ✚ **Sharps container (White color Translucent)** - Needles, scalpel blades, broken ampoules and vials etc.
- ✚ **Cardboard boxes with blue cover lined** - Two in each area. Only for disposal of glass bottles, ampoules and vials respectively.
- ✚ **Green bags** - Only for non infectious waste. Like Paper, plastics and Kitchen waste.



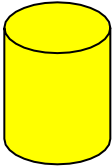
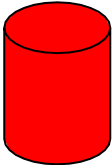
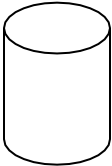
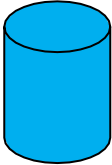
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Category	Type of Bag/Container Used	Type of Waste	Treatment/Disposal Option
<p><u>Yellow</u></p> 	Yellow Colored non-chlorinated plastic bags.	(a) Human Anatomical Waste (b) Animal Anatomical Waste (c) Soiled Waste (d) Expired or Discarded Medicines (e) Chemical Waste (f) Chemical Liquid Waste → (g) Discarded linen, Mattresses, beddings contaminated with blood or body fluid (h) Microbiology, Biotechnology and other clinical Laboratories waste	Incineration or Plasma Pyrolysis or Deep Burial Separate Collection System leading to effluent Treatment system
<p><u>Red</u></p> 	Red Colored non-chlorinated plastic bags.	Contaminated Waste (Recyclable) ➤ Tubing, bottles, intravenous tubes and sets, catheters, urine bags, syringes (without needles and fixed needle syringes) and vaccutainers with their needles cut) and gloves	Auto claving or Microwaving/Hydroclaving followed by shredding or Mutilation or combination of sterilization and shredding.
<p>White (Translucent)</p> 	Puncture proof, Leak proof, Tamper proof Containers	Waste sharps including Metals	Autoclaving or Dry Heat Sterilization followed by shredding or mutilation or encapsulation
<p>Blue</p> 	Cardboard boxes with blue colored marking	(a) Glassware (b) Metallic Body Implants	Disinfection or through autoclaving or microwaving or hydro claving and then sent for recycling



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Sharps containers: Syringes, needles and other sharps should be pretreated by disinfection and mutilation, or collected in puncture proof suitable sharp containers (blue color containers in CMC) for autoclaving/microwaving/chemical treatment and destruction/shredding. Needles, lancets, blades can be buried or smelted. They are autoclaved and discarded in cemented tanks where they remain as such for 15 years.

Plastic disposables: Plastic disposables such as i.v. bottles, catheters must be mutilated (cut in two places) disinfected followed by shredding to prevent reuse and can be considered for recycling. Treatment of sharps and plastic waste at site of generation e.g. by needle and syringe destroyers, chemicals, shredder, autoclave or microwave. Options must be selected according to feasibility and need.



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Microbiology and biotechnology waste: This waste must be autoclaved before disposal.

Storage of waste: Central storage of biomedical waste should be in a separate area from general waste. Biomedical waste must be stored in a secure area under a responsible person. Biomedical waste must be removed daily from bulk storage areas and should not be stored for more than 48 hours.

III. Temporary Storage Area

The mouths of all the bags when 3/4th filled are tied. All bags are labeled in order to track the location of waste generation. The yellow bag containing anatomical waste is to be labeled with anatomical waste label. The hospital has been divided into three zones to make the collection of these bags more efficient. The bags from the busy areas are collected three times a day while that in the other areas twice a day. Each area has been allotted a specific timing for collection and they are instructed to keep the bags in designated area outside the wards, half an hour before the collection timing. These bags are then collected by the maintenance and carried in closed trolleys and are stored in the area designated (behind MIQ) for infectious and non infectious waste in 2-3 shifts within 24 hours.





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IV. Transportation of Biomedical Waste

Within the hospital (internal transport). Dedicated closed trolleys or wheeled containers with appropriate markings must be used for transportation to storage, treatment or disposal facility.

Vehicles should be designed for easy cleaning and draining



Outside the hospital (off-site transport). Should be done in purpose designed dedicated vehicles, with a fully enclosed body and bulk-head separating the drivers compartment from the load compartment.

Labeling: Waste containers should be appropriately labeled & a bar code should be provide for each color coded covers as given in Schedule III and Schedule IV of BMW Rules-2016 with the Type of waste, site of generation, name of generating hospital or facility, which will allow the waste to be traced from point of generation to the disposal areas.



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V. Disposal of Waste Generated in Hospital

The infectious waste is weighed and is taken in close dedicated vans by Ken biolinks which is our designated common treatment facility. This is situated at Kandipedu, which is at a distance of 18 km from CMC hospital. Biomedical waste from CMC hospital as well as the peripheral hospitals of Schell, Low cost effective care unit (LCECU), Community health and development (CHAD), mental health centre (MHC) and Rehabilitation centre, is collected once a day by Ken biolinks, in closed dedicated vans and taken to Kandipedu. Here the final disposal of the waste is done in the following manner:





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Disposal of Bio-Medical Waste based on Category:

- ✚ **Infectious Waste:** Disposed by central agency (Ken Biolinks) after segregated collection.
- ✚ **Plastic Disposables** must be collected separately for shredding/mutilation and disinfection before disposal, recycling or land fill.
- ✚ **Radioactive Waste:** All waste containing radioactive materials should be properly labeled and its handling, storage and disposal must comply with all the requirements and regulation of Atomic Energy Licensing Act.
- ✚ **Chemical Waste:** Chemical waste must be stored in leak proof containers and labeled to identify the contents. Must be disposed of by an authorized waste management organization.
- ✚ **Pressurized Containers:** Should not be incinerated. Compressed gas cylinders should be returned to manufacturers. Aerosol cans should be disposed of with the general waste.
- ✚ **General Waste:** Arrangements for the transportation and disposal of general waste must be separate from that of biomedical waste.
- ✚ **Liquid Waste:** Can be discharged into hospital sewage system or waste treatment plant after appropriate disinfection and neutralization. Each institution must have a Training and Education programme. Safety Consideration and a policy for dealing with accidents and spillage must be formulated.
- ✚ **Recycling of Waste:** Recycling of infectious plastic waste can be considered only after adequate disinfection/sterilization. Disposable items like gloves, syringes etc. should be mutilated after use to prevent illegal packing and reuse. Wastes should be recycled by authorized manufacturer only.



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VI. Bio Medical Waste Forms:

BMW Forms	BMW Form Details
Form-I	Accident Reporting[(See rule 4(o), 5(i) and 15 (2)]
Form-II	Application for Authorization Or Renewal of Authorization (See rule10)
Form-III	Authorization (See rule 10)
Form-IV	Annual Report (See rule 13)



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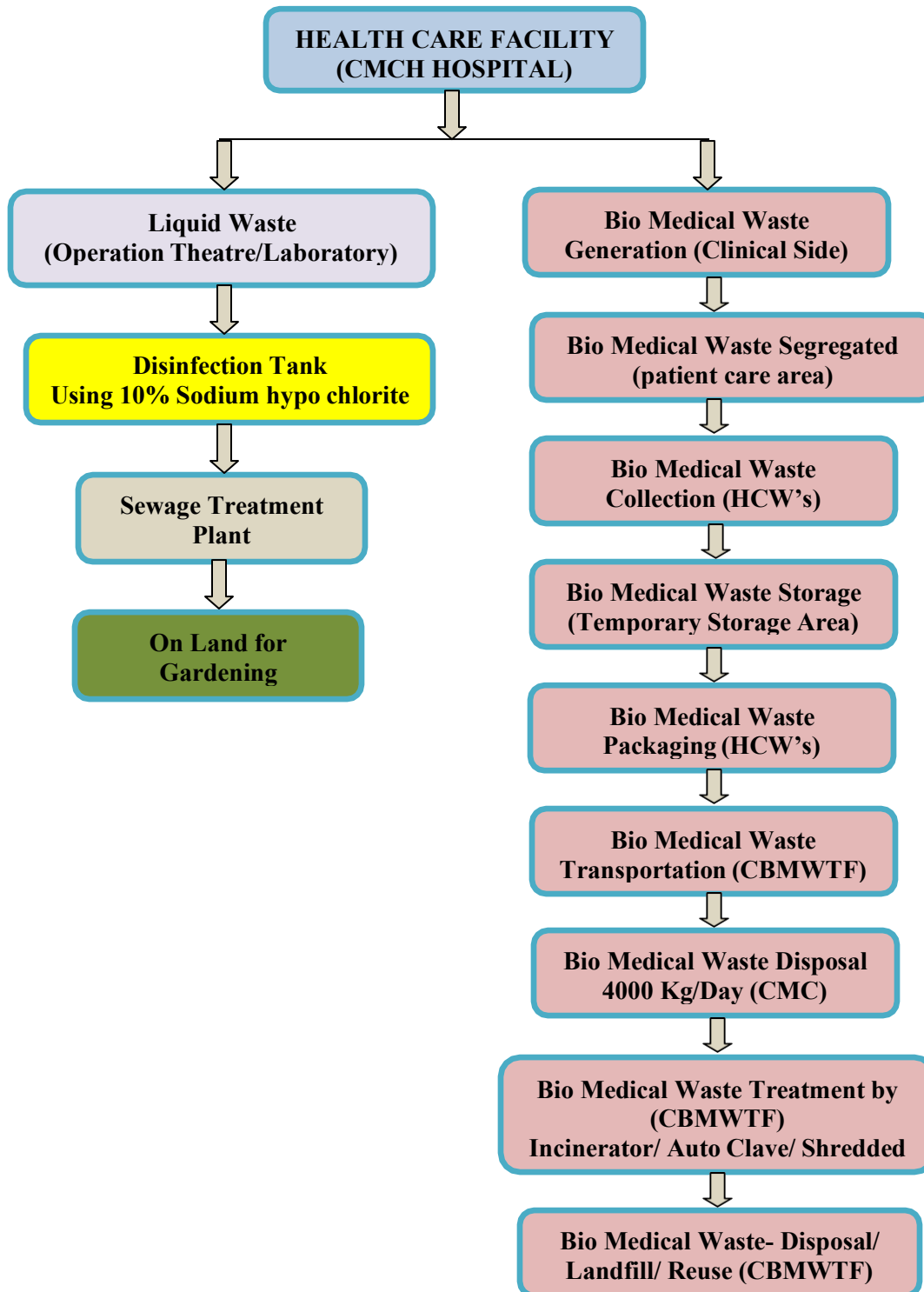


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VI. BIO-MEDICAL WASTE FLOW CHART





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VII- Standards for Liquid Waste:

Parameters	Permissible Limits
pH	6.5-9.0
Suspended solids	100 mg/l
Oil & Grease	10 mg/l
BOD	30 mg/l
COD	250 mg/l
Bio-assay test	90% survival of fish after 96 hours in 100% effluent



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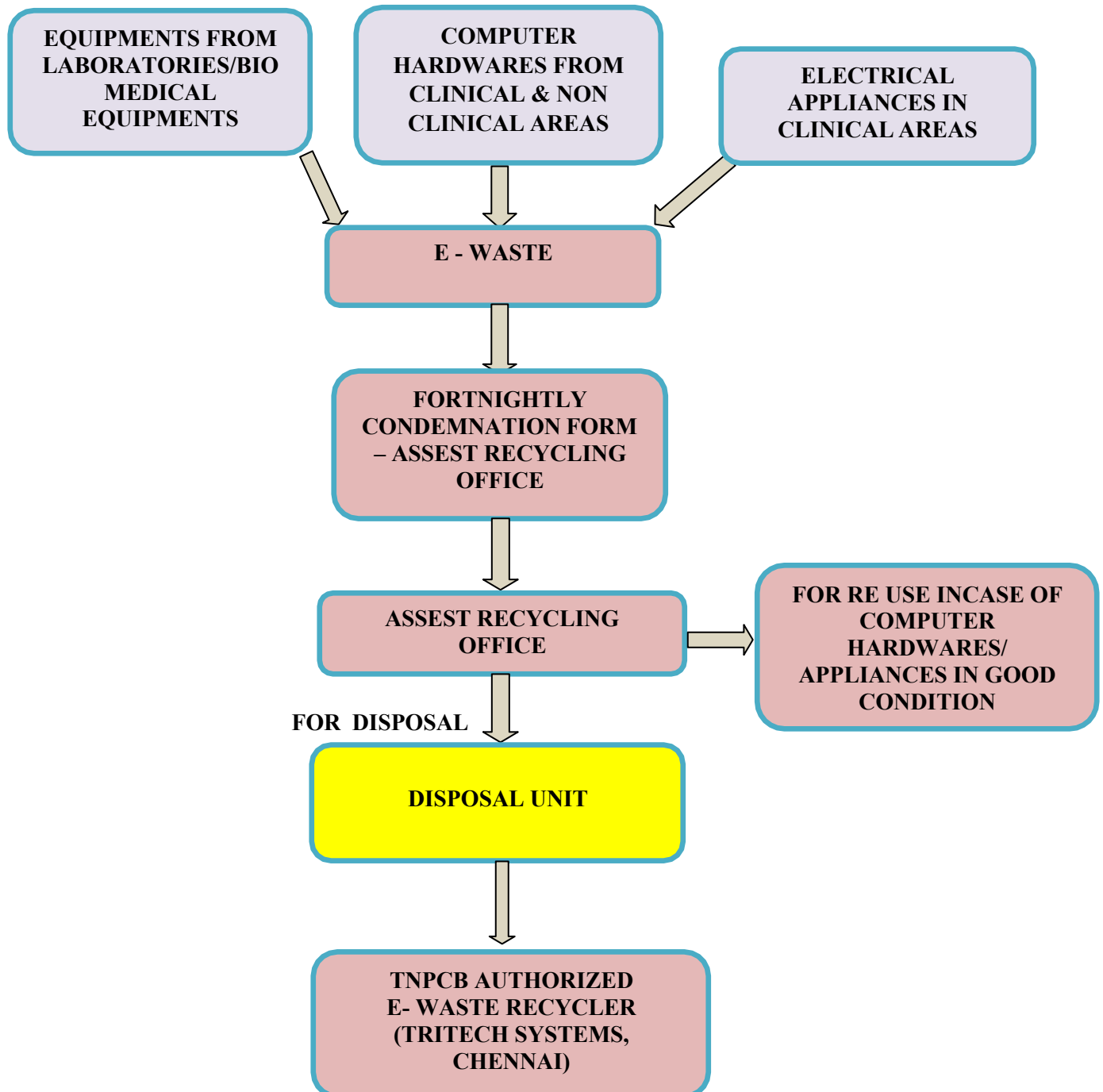
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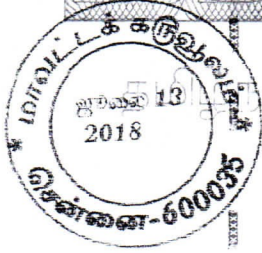
VIII. Roles & Responsibility of Health Care Facility:

S. No	Process	Responsibility	In-Charge
1.	Bio-Medical Waste Management Plan	BMW Committee members	Medical Superintendent
2.	Transportation to Temporary Storage Area	House keeping	General Superintendent
3.	Transportation of Bio Medical Waste from HCF to CBMWTF	CBMWTF	Ken Bio Links Pvt Ltd
4.	Oversight	BMW Committee members	MS, GS, HICC Officer & Engineers

CHRISTIAN MEDICAL COLLEGE, VELLORE

PROTOCOL FOR DISPOSAL OF E - WASTE





TAMIL NADU

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P.N. பூதர்
முத்திரைக்தாள் நிற்பனயாளர்
உரிமம் எண் : 5709/ஆ/3/2008
உயர்நீதிமன்ற வளாகம்,
சென்னை - 600 104

MEMORANDUM OF AGREEMENT

Between

Christian Medical College Vellore & M/s. SIVA PLASTICS

THIS MEMORANDUM OF AGREEMENT is made on 12th February 2020 for a period of 6 months.

BETWEEN:

- (1) **CHRISTIAN MEDICAL COLLEGE, VELLORE, INDIA**, an institution functioning under Christian Medical College Vellore Association registered under Societies Registration Act, 1860 having its Registered Office at Ida Scudder Road, Vellore 632 004, represented by its General Superintendent **Er. David Chandran** hereinafter referred to as "**CHRISTIAN MEDICAL COLLEGE**" or the "**THE GENERATOR**" and
- (2) **M/s. Siva Plastics** registered as a authorized Plastic recycler by Tamil Nadu Pollution Control Board represented by its Proprietor Mrs. Reddi Kumari hereinafter referred to as "**RECYCLER**", Herein after referred to Jointly as "The Parties"

GENERAL SUPERINTENDENT
CHRISTIAN MEDICAL COLLEGE

FOR SIVA PLASTICS & CHEMICALS

I. TERMS OF MOU :

This MOU shall come **into force** from the date of execution hereof and shall remain in force from 12th February 2020 to 11th August 2020.

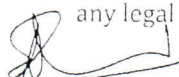
II. NOW THIS MOU WITNESSES AND IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS.

- The GENERATOR shall sell at the rates to be quoted and agreed by the parties and the RECYCLER shall Purchase the Plastic waste and scraps, solely for the Purpose of reprocessing. It is expressly agreed, declared and confirmed between the Parties hereto that the Waste Scrap Materials sold by the GENERATOR to the RECYCLER shall not be sold in the open Market as in the same form and /or under the brand, trade name names, trademarks, Copyright and the related intellectual Properties Which are owned by the GENERATOR, in any Part of India or by on behalf of or for the purchases for any Purpose, including. Recirculation and further trade and /or Sell, such understanding being the essence of the Contract.
- The RECYCLER do hereby agree, declare and confirm with the GENERATOR that they shall REPROCESS the Plastic waste and scraps sold by the GENERATOR .It has been agreed by the RECYCLER that Such "Reprocessed" goods will be sold in the Market under different brand names.
- The RECYCLER do hereby declare that they are in full knowledge of various registrations obtained and /or existing in favor of the GENERATOR in India under the Trade Mark and Merchandise Act 1958 and copy Right Act, 1957.
- The RECYCLER has agreed with the GENERATOR that they shall neither disclose the identity of stock/plastic waste and / or the source nor will it allow the same to be communicated indirectly. The RECYCLER agrees to maintain strict confidentiality and will ensure the same to the GENERATOR.
- The stock/scrap sold by the GENERATOR to the RECYCLER shall generally be handed over and the same would be given in loose form (bails/Bags/compressed form). However in the event some scraps are defaced and cut into pieces properly/compressed before removing out of the premises of the GENERATOR the same is to maintain the essence of this agreement and to further ensure that the clause herein above are not violated by the RECYCLER.
- The Waste plastics and scraps sold by the GENERATOR to the RECYCLER shall generally be defaced. However in the event the waste is sold without defacing, It would be the responsibility of the RECYCLER to ensure that the clause herein above are not violated.
- The scrap/plastic stock sale shall be effected only on "AS IS WHERE IS "basis. The RECYCLER shall not be entitled to query the quality of the product and the GENERATOR shall stand absolved on all such and other related issues. The GENERATOR does not grant and warranty in favor of the RECYCLER and any such claim by the RECYCLER to the trading community and / or consumer shall stand vitiated besides vehemently refuted in all manners.
- The waste plastics and other scrap shall be sold by the GENERATOR to the RECYCLER usually come its segregation yard at Bagayam .Transportation and packing delivery materials such as bags, etc. for collecting the waste plastics and other scrap shall be arranged and transported by RECYCLER only. The RECYCLER shall bear all the costs towards the transporting, Loading and unloading of the waste scrap. The waste Plastics and all other scrap materials shall be weighted by the representative of the GENERATOR who will supervise the entire operation of sale of waste plastics/scraps and over all control thereof.
- The RECYCLER hereby agrees with the GENERATOR that they shall maintain proper record of purchase of waste plastics and other scrap from the GENERATOR. The RECYCLER shall open an inward Register for the Plastic waste/plastics and other



scrap received from the GENERATOR, nature, quantity, place, date, place of purchase and such other necessary particulars as may be advised from time to time in that behalf.

- RECYCLER shall similarly also keep and maintain an outward Register giving particulars with regard to the name of the end product, nature, quantity, wastage, name/address of the RECYCLER and relevant information regarding the re-processed products and its disposal made from the use of Plastic waste and other scrap of the GENERATOR.
- The RECYCLER shall allow the GENERATOR representatives free and open access to its various offices, processing units and godown at all reasonable times excluding Sunday and Public holidays and shall furnish all records of receipt and disposal of Plastic waste and other scrap maintained by the RECYCLER for inspection of the representative of the GENERATOR. A change in the place of office, processing unit of godown shall be intimated in writing by the RECYCLER to the GENERATOR immediately.
- It is hereby expressly made clear that all statutory safety and security precautions as set by Christian Medical College, Vellore to be strictly followed by the RECYCLER during the time of collection of Plastic waste/scraps and other scrap from the respective place. The GENERATOR reserves the right to terminate the contract immediately on the event of breach of any safety/security guidelines (terms& conditions) during the contractual period.
- That the RECYCLER shall deposit with the GENERATOR a sum Rs. 25,000.00 (Rupees Twenty Fifty Thousand only) by way of Security Deposit at the time of commencement of the tenure of this contract including extensions thereof. The deposit is liable to be forfeited in case of the violation of this contract. This deposit will carry no interest.
- It is agreed, declared and confirmed by and between the GENERATOR and the RECYCLER that Plastic waste/Plastics and other scrap sold by the GENERATOR to the RECYCLER shall and only be used for the purpose or reprocessing only. In case of breach of any terms and conditions mentioned herein above, the GENERATOR shall be at liberty to terminate this agreement with immediate effect without any notice and also the security deposit shall stand forfeited immediately by way of compensation from the RECYCLER apart from claiming other damages by due process of law and through litigation before appropriate courts in accordance with law.
- The GENERATOR reserves the right and shall be entitled to sell Plastic waste/ plastics and other scrap to any trader without consulting the RECYCLER upon such terms and conditions as it may deem fit and proper during the tenure of this MOA
- The RECYCLER shall ensure that the sufficient and competent personnel is provided to undertake the scrap loading and related activity with own transportation. Also the RECYCLER or his supervisor should ensure the personnel posted by them on the premises observe basic discipline, safe guards and wear the required personal protective equipment, i.e. shoe, hand gloves, masque, helmet, etc.
- As part of the GENERATOR's safety and Environment Rules the RECYCLER agrees to adhere to the following:
 - It is agreed understood that it would be the responsibility of the RECYCLER to ensure compliance with all relevant laws and regulations for the disposal of waste including environmental laws governing such disposals. You will dispose the waste material only at site designated for the purpose by the local authorities. The RECYCLER shall also obtain all necessary license/consents etc. as required from time to time for the same it is expressly agreed by the RECYCLER that they will be fully liable and held accountable for any indiscriminate disposal outside designated site and / or any legal non compliance.



- The RECYCLER shall also be solely responsible to establish and sustain at all times all safety measures and practice for disposal and handling of waste amongst their employees, in full conformity with all laws in this regard. The RECYLCER will further comply with any specific request the GENERATOR may make from time to time.
- The agreement has been executed at Vellore. The Place of payment for all plastic wastes and scrap sold or supplied to RECYCLER by the GENERATOR under this agreement is the city of Vellore and that any suit to enforce the rights of either party under or in respect of this agreement shall be instituted in and tried by a competent court in the city of Vellore and in no other court and the RECYCLER further hereby expressly agrees to submit to the jurisdiction of such court.
- The GENERATOR reserves the right upon itself to add, amend, correct and / or dilute any terms and conditions set our herein above.
- The Contract shall be valid for an initial period of Six months from 12.02.2020 to 11.08.2020.

III. IDEMNIFICATION:

.The RECYCLER hereby agrees and Undertakes to indemnify and keep CHRISTIAN MEDICAL COLLEGE, VELLORE its directors, representatives and employees indemnified against any loss, charges , liabilities a obligations ,expenses including reasonable attorney fees and damage , incurred by CHRISTIAN MEDICAL COLLEGE, due to any misrepresentation, omission or commission caused by the employees/staff, servants ,agents of **the RECYCLER**, including breach of terms of this Agreement, Shall indemnify CMC for any violation relating to (a) any claims by third party (b) applicable laws , noncompliance , violations of applicable laws , applicable permits, codes, ordinances or regulations by **the RECYCLER**, (c) any consequences emanating out of services or claims on account of any accidents, disability/death of any person caused during the tenure of the MOA and (d) loss or damage to real or tangible property, caused by the **RECYCLER** or its employees/staff.

IV. TERMINATION:

A. The MOA can be terminated by either party with a month's notice to the other party.

V. Rights and obligations after termination

A. Already agreed works have to be completed by the parties.

VI. SEVERABILITY:

The Parties hereto agree that if at any time, any of the terms, conditions and/or provisions of this MOU are declared to be invalid or unenforceable to any extent under the applicable laws or under directions or orders of any judicial or other competent authority, this MOU shall continue to be in force, as if such clause was never in existence.

VII. CO-EXISTENT /CO-TERMINUS:

The terms and conditions of this MOA shall prevail over the previous communications.



GENERAL SUPERINTENDENT
CHRISTIAN MEDICAL COLLEGE



VIII. BINDING MOA

This MOA shall be binding upon the parties hereto and the parties to it agree to be bound by their respective rights and obligations herein.

IX. ARBITRATION:

- A. In case of any disputes or differences arising out of this MOA, the same shall be settled by a sole Arbitrator, jointly appointed by both the Parties, as per the provisions of Arbitration and Conciliation Act, 1996.
- B. The venue for arbitration shall be at VELLORE and the proceeding shall be conducted in English only.

X. GOVERNING LAWS:

This MOA and all acts and transactions pursuant hereto and the rights and obligations of the parties hereto shall be governed, construed and interpreted in accordance with the Indian Laws. Any legal actions pertaining to this MOU shall be commenced only before the competent courts in VELLORE to the exclusion of other courts.

SCOPE OF THE WORK:

1. The waste/Plastics scraps should be purchased by the RECYCLER as segregated on AS IS WHERE IS condition.
2. During the transit from the premises of the generators and up to the recycler's premises, if any violations of norms prescribed by the statutory authorities such as TNPCB, Local bodies are noticed, the entire proceeding leading to any kind of action should be dealt with the contractor /Recycler at their own risks and costs. And the generator will not be held liable or responsible for such act.
3. The GENERATOR reserves the right to sell the Waste/Scraps to any number of RECYCLERS without the consent of the existing RECYCLER.
4. The RECYCLER should dispose/clear the recyclable plastic/scraps within 2 days from the date of intimation/Notification and the payment should be made within 24 hours of the delivery or dispatch of plastic waste from the generators premises.
5. Failure to remove the Plastic waste and scraps within notified time limit will result in cancellation of the agreement, leading to forfeiture of aforesaid Security deposit.
6. Loading, Transportation and unloading of the plastics/scraps will be under the scope of work of the RECYCLER.
7. The RECYCLER will be solely responsible for the transit of the recyclable scraps/Plastics out from out of the GENERATOR FACILITY to destination for reprocessing and disposal. In case of improper disposal of material is encountered, the consequent actions relating to the Non - Compliance of statutory bodies regulations will be dealt with only by the RECYCLER and not by the GENERATOR.
8. The RECYCLER should furnish a certificate to the effect that the recyclable plastics/scraps were handled/disposed/recycled/destroyed as per the plastic waste management rules 2016 and its amendment
9. This MOA will not prevent the GENERATOR to engage other RECYCLER for the Same purpose



10. A part payment (at least 80%) in advance must have to be paid before to take delivery of goods.
11. Plastic waste and scraps should be removed as per the tender rules has to be enumerated without causing any hindrance to the normal functioning of Christian Medical College, Vellore. Their staff, patients, relatives and visitors to the GENERATOR Hospital.
12. Any breach of the above stated rules will be construed as violation of this agreement and will result in cancellation of the agreement.
13. MOA period is from 12th February 2020 to 11th August 2020.

IN WITNESS whereof the parties hereto have set their respective hands and seals on the day, month and year first written above.



For Christian Medical College

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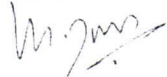


For M/s. Siva Plastics

Witness: GENERAL SUPERINTENDENT Witness:

CHRISTIAN MEDICAL COLLEGE

Signature: VELLORE - 632 004.



Signature: M/Siva Kumar

Name: K.R. RAMAKRISHNAN

Name: N Siva Kumar

1/33, ungarana halli
Collectorate (POST)

Title: CONSULTANT ENGINEER
CME

Title: Dasrampuri - 636705

Date: 13-02-2020

Date: 13.02.2020



Vashtalas
Dean, College of Nursing,
Christian Medical College,
Vellore - 632 004.