

**WHEREAS**, due to the proliferation of health care establishments in the City of General Santos, the problem on medical waste management and disposal has become a major concern of the locality;

**WHEREAS**, improper management and disposal of healthcare wastes from hospitals, clinics and other facilities pose occupational and public health risks to patients, health workers, waste handlers, haulers and general public;

**WHEREAS**, in these times of heightened environment consciousness, addressing the issue of proper health care waste disposal is of paramount concern, hence a medical waste treatment facility is much needed in the City of General Santos;

**WHEREAS**, the pyroclave facility, is an environmentally-safe, low cost, Filipino-invented medical waste management system which is capable of disinfecting three tons of medical garbage per day which can surely accommodate the volume of daily medical wastes generated by the city, making it a vital addition to the Sanitary Land Fill in Barangay Sinawal;

**NOW THEREFORE**, on motion of Hon. \_\_\_\_\_, seconded by Hon. \_\_\_\_\_, be it -

**Resolved**, as it is hereby resolved to enact the following ordinance

ORDINANCE NO. \_\_\_\_\_  
Series of 2017

**AN ORDINANCE ESTABLISHING THE PYROCLAVE FACILITY AT THE SANITARY LANDFILL IN BARANGAY SINAWAL, THIS CITY, PRESCRIBING GUIDELINES ON ITS OPERATION AND PROVIDING FUNDS THEREFOR**

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**HON. ELIZABETH B. BAGONOC – Author/Sponsor**

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*Be it ordained by the Sangguniang Panlungsod, City of General Santos, that:*

Section 1. **Short Title.**– This ordinance shall be known as “The General Santos City Pyroclave Ordinance.”

Section 2. **Declaration of Policy.**– It is the duty of the local government to protect life and advance the rights of all citizens to food sufficiency, sovereignty and safety, sustainable livelihood and social equality or accord with the rhythm and harmony of nature. Towards this end, the local government will establish the pyroclave facility in the Sanitary Landfill in Barangay Sinawal to treat medical wastes generated by the city.

Section 3. **Definition of Terms.**- For purposes of this Ordinance, the following terms are hereby defined:

- (a) **Hazardous Medical Waste** – medical wastes which may entail health risks.

Table 3.1 Classification of hazardous medical waste

1.	Sharps	Sharps are items that could cause cuts or puncture wounds, including needles, hypodermic needles, scalpel and other blades, knives, infusion sets, saws, broken glass, and nails.
2.	<p>a. Waste entailing risk of contamination</p> <p>b. Pathological waste</p> <p>c. Infectious waste</p>	<p>Waste containing blood, secretions or excreta entailing a risk of contamination</p> <p>Waste consists of tissues, organs, body parts, human fetuses and animal carcasses, blood, and body fluids</p> <p>Waste containing large quantities of material, substances or cultures entailing the risk of propagating infectious agents (cultures of infectious agents, waste from infectious patients placed in isolation wards).</p>
3.	<p>a. Pharmaceutical waste</p> <p>b. Cytotoxic waste</p> <p>c. Waste containing heavy metals</p> <p>d. Chemical waste</p>	<p>Spilled/unused medicines, expired drugs and used medication receptacles</p> <p>Expired or leftover cytotoxic drugs, equipment contaminated with cytotoxic substances.</p> <p>Batteries, mercury waste (broken thermometers or manometers, fluorescent or compact fluorescent light tubes).</p> <p>Waste containing chemical substances; leftover laboratory</p>

		solvents, disinfectants, photographic developers and fixers.
4.	Pressurized containers	Gas cylinders, aerosol cans.
5.	Radioactive waste	Waste containing radioactive substances: radionuclides, urine or excreta of patients treated.

- (b) **Medical Waste** - refers to waste materials generated at health care facilities, such as hospitals, clinics, physician's offices, dental practices, blood banks, and veterinary hospitals/clinics, as well as medical research facilities and laboratories.
- (c) **Pyroclave facility** - refers to a medical waste processor that uses pyrolysis. This facility places waste material inside a sealed rotating chamber. Once the facility is turned on, it goes to work and starts heating the rotating chamber. The intense heat within the chamber (up to 1200°C) starts carbonizing the medical waste. The gas produced by the intense heat and decomposition process is recycled and fed into the burners, thereby serving as added fuel to continue the process and help boost combustion. After 15 to 45 minutes, what is left is the carbonized, soil-like remnants of the medical waste that is claimed to be safe enough to be disposed of anywhere and can even be used as soil conditioner. The pyroclave facility has the capability to disinfect, reduce mass and volume by 95 % all types of medical wastes including body parts, chemical and pharmacological wastes.
- (d) **Pyrolysis** - refers to the process of decomposing organic material using extreme heat in the absence of oxygen.
- (e) **Waste treatment** – refers to purpose of treating health care waste to change the biological and chemical character of the waste to minimize its potential to cause harm.

Section 4. **Operation.**- The facility shall comply with and observe the following operational requirements:

- a. **General Requirements.** - The pyroclave facility (henceforth abbreviated to "facility") shall contain apparatus and machinery designed, constructed and/or installed in accordance with the specific type of medical wastes processed. Installations and machinery shall strictly adhere to the specifications of the equipment manufacturer and the recycling facility operator. Authorized competent and experienced personnel shall inspect the facility prior to its use to ensure that the site, infrastructure, activities performed and machinery contained therein adhere to operational and applicable government regulatory requirements.

- b. **Safety Procedure.** - The facility operator shall ensure that the facility is strictly in compliance with the laws and regulations that provide for worker safety and well-being in order to reduce the incidence of worker injury and liability costs associated with it. The Occupational Safety and Health Standards, promulgated in 1978 and amended in 1989, shall be observed at all times.
- c. **Training of Facility Personnel.** - All personnel involved in the commissioning, operation and maintenance of the facility shall be trained in the proper identification, sorting, segregation and preparation of medical waste especially hazardous waste in the operation and maintenance of machinery and equipment.
- d. **Environmental Compliance.** — The facility shall be compliant with applicable environmental laws and regulations.

Section 5. **Budgetary Requirements and Logistical Support.**- The facility personnel shall be provided by the City Waste Management Office, subject to budgetary, logistical and training requirements. Operating and capital expenses for the establishment of the facility shall be sourced from the General Fund or any other source of fund available thereof with the amount of Twenty Million Pesos (P20,000,000.00).

Section 6. **Duties and Functions of the Facility Personnel.**- The facility personnel shall undertake the following:

- a. Operate the pyroclave facility;
- b. Conduct preventive maintenance on machinery, equipment and premises;
- c. Submit monthly report of facility production;

The City Waste Management Office (WMO) shall be the main implementing office of the Ordinance. It shall conduct regular monitoring and inventory of the facility's operation and production. It shall conform to best practices and industry standards in medical waste disposal as well as operation, occupational and safety standards prescribed in the Occupational Safety and Health Standards issuance of the Department of Labor and Employment (DOLE).

Section 7. The Ordinance shall be incorporated in the Development Plan of the General Santos City Sanitary Landfill. The Ordinance's provision on the facility's operation, logistical support, and the duties and functions of its personnel shall be integrated in the Operation Manual of the General Santos City Sanitary Landfill.

Section 8. **Implementing Rules and Regulations.** — The Office of the City Mayor and the City Waste Management Office shall formulate the Implementing Rules and Regulations (IRR) of this Ordinance within thirty (30) working days after the approval of this Ordinance.

Section 9. **Repealing Clause.**- All ordinances, orders, rules and regulations which are inconsistent with any of the provisions of this Ordinance are hereby repealed or modified accordingly.

Section 10. **Separability Clause.**- If for any reason or reasons, any part or provision of this Ordinance shall be held unconstitutional or invalid, other parts or provisions which are not affected shall continue to be in full force or effect.

Section 11. **Effectivity Clause.**- This ordinance shall take effect take effect fifteen (15) days after its publication in a newspaper of general circulation within the City of General Santos.

Enacted by the 18<sup>th</sup> Sangguniang Panlungsod, City of General Santos on its \_\_\_\_\_  
Regular Session held at the Session Hall, Legislative Building, General Santos City on  
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