



Small-type medical waste incinerator NU100B

~ The outcomes of survey in Senegal ~

Kokusai Kogyo Co., Ltd.
Stella Environment Corporation

26th August 2019

Corporate Name

Stella Environment Corporation

Founded

June 2005

* founded as a venture company in collaboration with Nagasaki University

Location

Minato-ku Tokyo, Japan

Nature of Business

1) Small-type Incinerator for Medical Waste

* Manufacturing, installation and training

2) Solar Photovoltaic System

* Design, Supply and Installation with Mitsubishi Electric Asia Pte Ltd.

Creating smiles, Creating sustainability, All for the next Generation



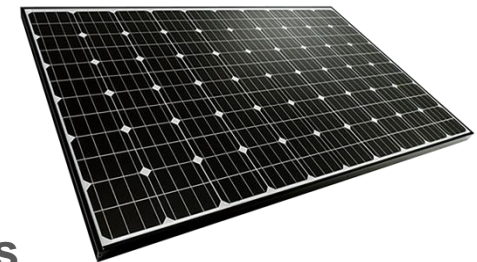
Supply Records

Stella Environment Corporation



Incinerators

10 countries, 43 units



Solar systems

6 countries

Incinerators for Medical wastes



Case 1 :

**Democratic Republic of
Congo, 2016**

**1 unit for Lubumbashi
University Hospital**



Incinerators for Medical wastes



Case 2 :

**Republic of Senegal,
2019**

1 unit for Diourbel Hospital



Solar Streetlight System



Case 1 :

**Democratic Republic of
Congo, 2016**

**563 units for the main road
connecting the airport to
downtown Kinshasa**



Small-type Incinerator for Medical Waste

Capacity: Maximum 25kg/day (5kg/5times/day)

Dimensions: 760W × 760D × 4,700H mm

Weight: Approx. 1,000kg

Consumption: Approx. 5ℓ/h (Diesel)





Fuel

Run by firewood in case of insufficient diesel supply.



Power Supply

Solar power battery system



Special designed chimney hood

Operational in all weathers.

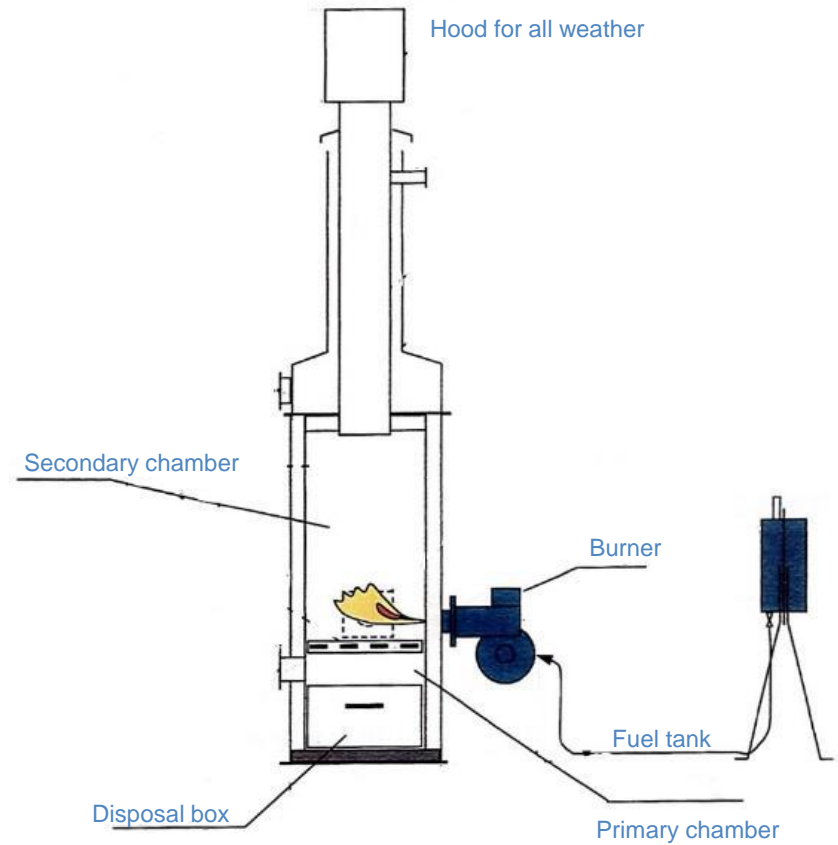


User friendly

Easy use and maintenance.

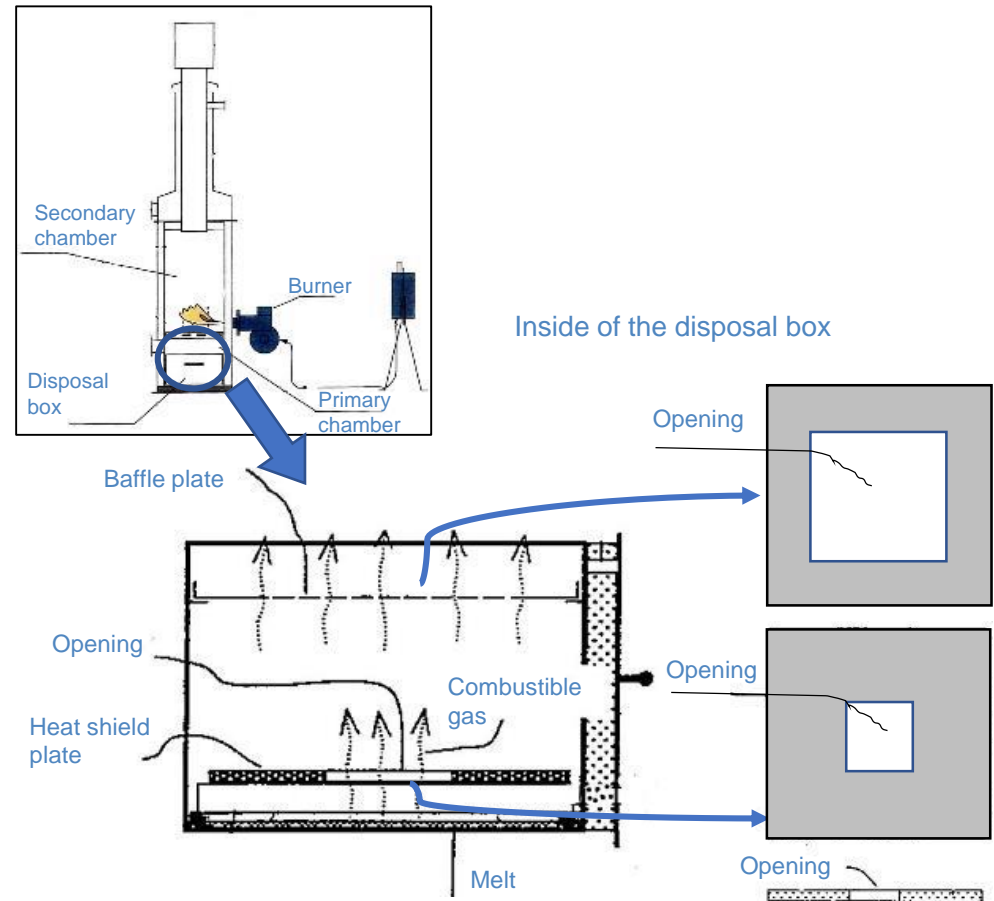
The burning system making use of radiant heat, which,

- Prevents the burner's continuous functioning.
- Enables perfect combustion of syringes (plastics) to be turned into fuel.



Minimizing the occurrence of dust and black smoke

with the special designed baffle plates, which prevents melted combustion products from gasifying at once.



“Survey on the Effectiveness of Small-type Incinerator for Healthcare Wastes in a semi-decentralized Treatment System”

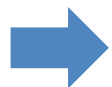
Country : Senegal

Period; First Survey : April 2019, Second Survey : June 2019

Consultant: Kokusai Kogyo Co., Ltd.



The government had formulated a national strategy aiming to archive Universal Health Coverage.



While, medical waste is not properly handled....

- Insufficient incinerators.
- Most of the existing incinerators not working.
- Treated by open burning, mixing up with municipal wastes.

Dedicate NU100B exclusively for Sharps waste treatment

- Sharps Wastes are the most infectious and dangerous
- They cannot be treated by open burning

Semi-decentralized treatment system

- Install NU100B in optimum locations at Health Centers
- Collect sharps wastes from health posts and clinics and treat them collectively

Establish a maintenance system

- Collaboration with a national vocational school
- Technical transfer
- NU100B will be installed in December 2019. (Diourbel Hospital)



**STOP Infection Accident !
No more Environmental Pollution !**

**STOP Infection Accident
STOP Environmental Pollution
and
Creating smiles,
Creating sustainability,
All for the next Generation**

Thank you very much!