PECMA
POLLUTION CONTROL & EQUIPMENTS

INCINERATOR

TODAY'S ANSWER TO TREAT ALL WASTE

MUNICIPAL - INDUSTRIAL - HAZARDOUS - BIO MEDICAL - CHEMICAL
(Capacity 10kg/hr to 1000kg/hr)

Keeping in view :-

- Latest Waste Management, Handling, Treatment & Disposal as per statuary Rules & Regulations defined by MoEF, CPCB etc.
- Latest Municipal Solid Waste Management & Handling Rules
- Latest BMW Management Treatment & Handling Rules
- Latest Radio Active Management Treatment & Handling Act
- Controller of explosive Rules & Regulations

Zero Emission - Air Pollution Control Systems are designed to achieve Flue gas emission level far far below the permissible limits.-

(SPM		<20mg/Nm3)
HCL	:	<20mg/Nm3
HF	:	<4mg/Nm3
Sox	:	<20mg/Nm3
Total Organic carbon	:	<20mg/Nm3
Furan / Dioxin	:	<0.1ng/Nm3

Zero Discharge – Waste /Polluted water Treatment (E.T.P) are designed for Treatment and Recirculation of Treated water in process.

(pH -6.0-8.5, T.S.S. <100mg/lt TDS <600Mg/lt, BOD<50mg/lt ,COD <250mg/lt,Water Colour- Clear Water, Ammonical Nitrogen <50mg/lt, Arsenic< 0.2 mg/lt)

Energy Recovery- Incinerator Systems are available with or without Energy Recovery Systems for Pre Heating, Moisture Removal, Drying , Preparation of Refuse Drive Fuel (RDF) , Steam Generation, Hot Water and Combined Heat Power(CHP) etc.

Salient Features Zero Emission-Zero Discharge, 100% Energy Recovery , Fuel consumption (40-60%) less, Power consumption 30-40% less in comparison to similar equipments available.

PECMA AIR SYSTEMS PVT. LTD.
H.O. :- 301 - 302, COMPETENT HOUSE, 7, R.B.C. NANGAL RAYA BUSINESS CENTRE, NANGAL RAYA, NEW DELHI - 110 046
PHONES : +91 11 28520437, +91 11 28521466 I FAX : +91 11 28520437 I MOB. : +91 9873349600
• Web : www.pecmapollutioncontrol.com I E-MAIL : pecma2002@yahoo.co.in, pecma1987nks@yahoo.in
Works : Plot No.-537, Sector-37, Pace City-II Gurgaon, Haryana-122006 • E-MAIL : info@pecmapollutioncontrol.com, engineering@pecmapollutioncontrol.com

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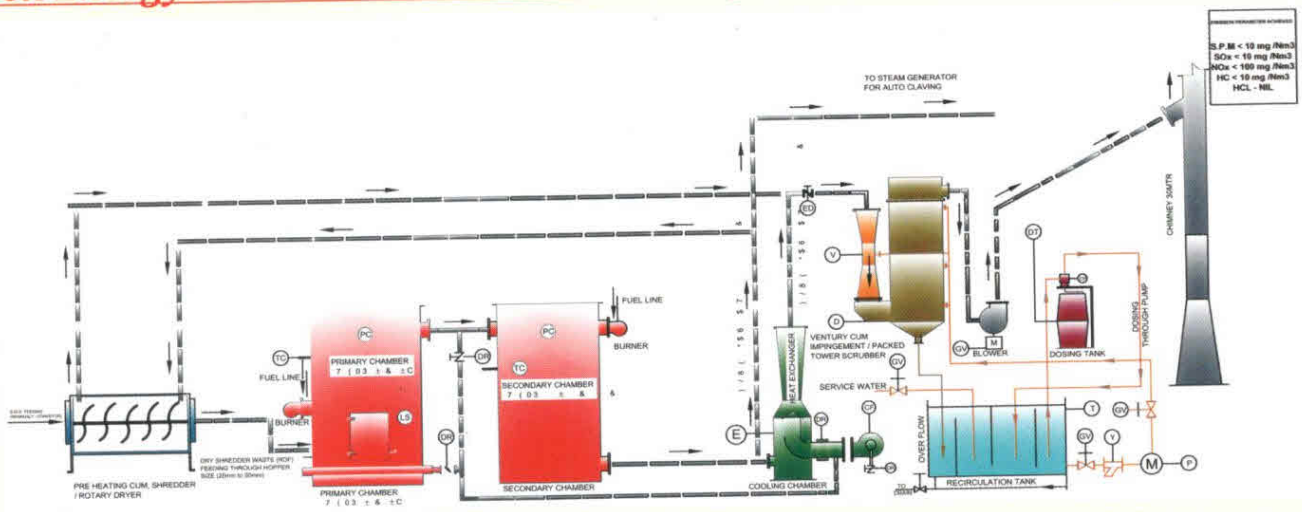
MAYHEM OF INCINERATION ALTER TO –

Green Energy –Zero Emission-Zero Discharge-Renewable Energy Source



TYPE OF INCINERATORS

PYRLOYTIC – ROTARY KILN- FLUDIZED BED-MOVING /FIXED GRATING

INTEGRATED / COMBINED INCINERATOR CUM STEAM STERILIZER (PEC-CIST), which is a compact equipment to treat all category of Bio Medical Waste under (category 1,2,3,4,5,6,7)

- For your application, we shall like to offer a PYROLYTIC type Incinerator. In this particular type of Incinerator heat and air for combustion is regulated in order to first volatilize the waste below the stoichometric air conditions and product of combustion are totally destroyed in adequate heat and excess air.

- This is a twin chamber Incinerator. Both the chambers Pre combustion & Post combustion chamber are refractory lined and are suitable to withstand more than 1400°C temp. In Pre combustion chamber as per the combustion standards temp of 850°C is maintain and waste is incinerated under controlled quantity of air where the volatilization of waste take place. The gasified waste passes through the secondary chamber where temp. of 1100°C is maintained and retention of flue gases is created and the further burning of particulate matter takes place. There also the heat source is through automatic controlled fuel oil burner system.

- Further, the flue gases escaping through the educator system are maintained at about 300°c temp. over here we can utilize the thermal energy of flue gases escaping at 1100C for the useful purpose like-

SALIENTFEATURES

- **Pre heating of Waste in a Rotary Dryer and converting the Waste into Refuse Drive Fuel (RDF) which itself works as a fuel and / or self destruction of Bio Medical Waste in pyrolytic Incinerator by utilizing carboneous- Hydro Carbons contents of the Waste- thus 90% reduction of Fossil Fuel.**

- **Thermal Energy of flue gases emitting from Post Combustion Chamber at 1100°C is utilized for steam generation in Combined Incinerator cum Steam Sterilizer (PEC-CIST) manufactured by ♦ PECMA - is a , dual purpose equipment which treats the BMW Waste under category (1,2,3,5,6) and parallely Sterilize the Waste under category (4,7)**

A complete solution of treatment of Bio Medical Waste under all categories with 100% Energy Recovery and almost nil consumption of Fossil Fuels.

- A step towards Sustainable Development

- In order to maintain emission parameters as defined by Central Pollution Control Board – Air Pollution Control Equipments i.e. Scrubber System is installed. Finally the treated gases are emitted through a 30 to 40 mtr chimney.

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