



MACFASTTM
Igniting wisdom since 2001

**MAR ATHANASIOS COLLEGE FOR ADVANCED STUDIES TIRUVALLA
(MACFAST)
Thiruvalla - 689101**

SOLID WASTE MANAGEMENT



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The college has an established waste management system. Waste bins are kept in each floor, hostels, canteen and other identified spots in campus. Special care is taken to make sure the dead leaves and waste papers are not scattered in the campus as well as in the hostels. Waste Management Mechanism includes Segregated Collection at the Point of Generation, Transport to the Processing Facility, Resource Recovery for Recycling and Reuse, Processing and Disposal. For segregated collection, differently coloured bins were provided at the points of generation (as biodegradable and recyclable) a GREEN BIN for Biodegradable Wastes, BLUE BIN for Recyclable Wastes, YELLOW BIN for Non-Biodegradable waste. These segregated wastes will be collected and removed from the points of generation on a regular basis by the staff involved in cleaning work. The contents of green and blue boxes are removed daily, weekly and monthly respectively.

Bio degradable wastes are processed by an aerobic composting method through a bio bin (bio trigger mechanism) which is installed at the campus and it produces bio fertilizer. Non- bio degradable wastes like plastic and glass are kept in a separate container for further processing. The collected plastics and paper are sold to scrap-agencies for recycling. The messages regarding waste management, energy conservation, personal hygiene etc. are placed at appropriate places in the campus for awareness. In addition to this, continuous awareness programs are telecasted through the campus community radio -RADIO MACFAST 90.4 by students and staff.

➤ INCINERATOR

The college has installed an Incinerator in the campus. The commercial incinerator used for the burning of waste is Model Mars MCIM 30 with 40 kg per day capacity. The size of the Incinerator is 84cm×170cm (Diameter * Height). Fire wall thickness is 4 inch and the approximate weight is 740 kg. It is made up of stainless steel and the cost of incinerator is Rs. 1,13,000/-. The incinerator will prevent the chances of fire hazards that may occur during incineration of waste. The smoke from the incinerator is expelled through 14 feet high chimney and this prevents the entry of smoke into the breathing zone. It is easy to operate and can be



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operated even during rainy season. This incinerator does not require fuel or electricity for its functioning.



CERTIFICATE



This is to Certify that Quality Management System of

MINERAL MAX

OFFICE: 9/427A EARVADY BUILDING, CHEERANCHIRA PO,
CHANGANASSERY, KOTTAYAM 686106

has been audited and conformed to be in accordance with the requirements of

ISO 9001:2015

Quality Management System

For the following scope of activities:

Supply, Installation, Commissioning and Servicing of RO Plants, Filter Plants,
Waste Water Treatment Plants, Incinerators, CCTV for Houses, Flats, Villas,
Schools, Hostels, Hospitals, Hotels, Crushers, Food Processors, Readymix Etc

Certificate Number:	Date of Certification:	First Surveillance Audit Due:	Second Surveillance Audit Due:	Date of Expiry:
P01M02H074042	02-Feb-2021	01-Feb-2022	01-Feb-2023	01-Feb-2024



Head of certification



United Kingdom
Certification
Board
#CAB 130118



Lack of fulfillment of conditions as set out in Certificate conditions and T&C may render this certificate invalid. Validity of this certificate is subject to annual surveillance audit. Verification of this certificate can be verified at TIQ Certification and Inspection Limited (TIQ) website at www.qcertification.org/verify or by scanning the QR code to the right. This certificate remains the property of TIQ and shall be returned immediately on request.

TIQ is accredited by UKCB (United Kingdom Certification Board), 27 Old Gloucester Street, London, United Kingdom. www.ukcb.org.uk WC1N 3AX (#CAB 130118). Website: www.qcertification.org | Email: info@qcertification.org |

India Office: 117, Antriksh Bhawan, Barakhamba Road, New Delhi-110001





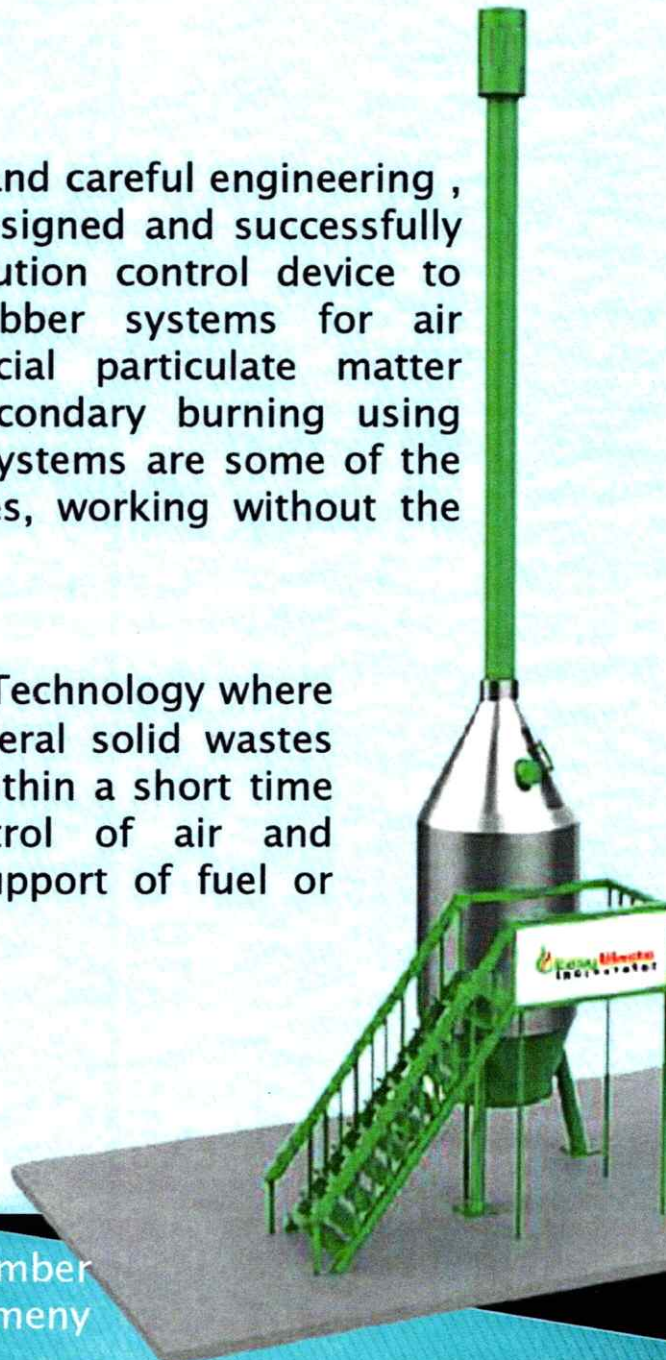
Mineral Max

An ISO 9001:2015 certified company

INCINERATOR

Through Paper studies and careful engineering , we have developed , designed and successfully installed fuel free pollution control device to easy clean. Wet scrubber systems for air pollution control, special particulate matter elimination system, secondary burning using the principle of AACT systems are some of the pollution control devices, working without the aid of fuel or electricity.

Automated Air Control Technology where large quantities of general solid wastes can be turned to ash within a short time by the effective control of air and temperature without support of fuel or electricity



- Five layer combustion chamber
- Scientifically designed chimney
- AACT systems
- Loading door at the top
- Ash chamber at bottom
- Thick ceramic clay brick insulation inside
- High quality glass wool insulation inside
- Inbuilt pollution control system
- Access ladder for PCB tests



Operation of Easy Waste incinerator is simple. Almost all types of waste materials, both wet and dry can be burned. Just dispose the waste through the disposal window, put an ignited paper into the chamber. Due to its unique features it will catch fire immediately. Shut the window. All the wastes in the combustion chamber will be burned to ash within a few minutes.

Ash can be collected in bags and used as manure. Generally dry and wet waste can be mixed in 60:40 ratios which support it easy to burn without fail.

- ❖ Installation cost of the unit is very low.

No any kind of fuel is required, hence no operation cost.

- ❖ No electric or electronic devices with the system hence no maintenance cost.

- ❖ Both wet and dry waste can be burned in the unit with in 45 min. of time.

- ❖ Volume of combustion chamber is large, hence the large quantity of waste can be disposed within minutes.

- ❖ The space required for installation of unit is very minimum(4mx4m).The unit is fabricated with heavy duty steel and can be installed at any place as per the requirement.

- ❖ The unit can be installed within 10 days when brought to site.

- ❖ The unit perfectly insulated for thermal protection , hence absolutely no radiation of heat from the combustion chamber . So it can even be erected close to the building

