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Multipurpose Incinerator Machine

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Abstract: *This paper presents the development and implementation of a multipurpose incinerator machine designed to address the pressing issue of waste management. The system focuses on the disposal of dry and plastic waste through high-temperature incineration, reducing the environmental impact of conventional methods. Utilizing a PIC microcontroller for automation, the system ensures efficient operation, real-time monitoring, and minimal human intervention. Key features include temperature control, safety mechanisms, and exhaust gas management. This innovation offers a scalable, environmentally friendly solution for waste disposal, with potential applications in residential, institutional, and industrial settings.*

Keywords: Multipurpose Waste Processing Unit, Reduce, Reuse, Recycle, Dry Waste Processing, Plastic Waste Processing, Eco-Friendly Waste Management, Landfill Reduction, Open Burning Prevention, Infectious Medical Waste Disposal, Public Health, Emission Control Systems, Waste-to-Energy, Sustainability, Advanced Filtration Techniques, Environmental Impact, Urban and Rural Waste Management, Energy Recovery from Waste, Cleaner Air

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