

## WASTE INCINERATOR BOX

INVENTORS: **TEAM PLASMA**

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Waste management has always been a challenging problem and needs to be addressed to reduce the environmental impacts like pollutions due to the increasing wastes. General practice in house hold waste disposal is burning it in open space or dumping it in public waste bins which then get transported and treated in a waste treatment plant. The disadvantage with such disposal techniques are that burning in open space leads to the emission of harmful gases and also the transportation and treatment requires huge time and capital investment. The Waste Incinerator Box developed by Team Plasma which includes Ashish, Aswin, Anand, Jishad and Subin of S5 Mechanical Engineering, NCERC, Pampady under the guidance of Mr. Deepak VK and Mr. Vishag T, Assistant Professors, NCERC Pampady proves to be a solution for addressing this challenge. The project uses a doorway to place the waste materials into a heating chamber which has a heating time controllable coil and a filtration system. The heating coil is activated to produce the required heat to burn the wastes and continuous oxygen supply is provided using a blower. The waste gas emitted as a result of the combustion is passed through the 3 level filtration system and all the pollutants are absorbed in it thus leaving only non-pollutants to the outside. This incinerator box can be used to replace the normal dustbins especially the ones placed in public. Team Plasma is planning to set up a startup for commercialization of their idea Waste Incinerator Box.



*Mr. ASHISH D with the WASTE INCINERATOR BOX*



ASHISH D



ANAND K KRISHNAN



ASWINRADHAKRISHNAN



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**CONGRATULATIONS FROM**  
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**TEAM PLASMA FOR MANUFACTURING ECO FRIENDLY WASTE INCINERATOR BOX**