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Bihar-based startup develops decentralised biomedical waste incinerator

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The problem associated with handling and disposal of biomedical waste is exacerbated due to the COVID-19 pandemic in small towns and villages



Principal Scientific Adviser to the Government of India Prof K Vijay Raghavan virtually inaugurated a decentralised biomedical waste incinerator at Buxar Municipality, Bihar.

The technology developed by Ganesh Engineering Works was selected through the Biomedical Waste Treatment Innovation Challenge launched in June 2020 by the Waste to Wealth Mission.

The pilot installed in Buxar is a portable, forced draft incinerator capable to handle 50 kg of biomedical waste made of cotton, plastic, or similar materials per hour (5kg per batch), with the provision of waste heat recovery. The unit requires a two square meter area and requires only 0.6 kWh electricity for initial ignition of the waste with an option of auto electricity turn off.

The waste heat recovery will be undertaken from the hot gas for any productive application near the site of installation. Different types of waste heat end products will be tested during the pilot at different sites like distilled water, steam, hot water, gas burning, etc.

Efforts will be taken for best utilisation of the technology in residential or public places ensuring zero smoke, chimney usages, compact system, plasma (spark) burning, waste heat recovery, etc.

Vijay Raghavan said, "It is very heartening that Ganesh Engineering, a startup based in Buxar has been able to develop a decentralised biomedical waste incinerator. Going forward it is important that Ganesh Engineering use insights from the operational phase and further refine their technology and explore manufacturing partnerships for scale-up."