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Novel anti-microbial air purification technology deactivates COVID-19 virus in 1 min

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The technology is developed by AiRTH, a startup incubated at the Startup Incubation and Innovation Centre, IIT Kanpur



A technology developed jointly at the Indian Institute of Technology (IIT) Kanpur and IIT Bombay has proven to be a path-breaking innovation against both air pollutants and the coronavirus.

The 'Anti-Microbial Air Purification Technology' not only purifies the air but destroys germs, as well, thereby ensuring complete protection. The technology has been tested at CSIR-IMTECH and has proven to be able to deactivate SARS-CoV-2 virus with an efficacy of 99.9 per cent within just one minute.

This new technology was developed by AiRTH, a startup incubated at the Startup Incubation and Innovation Centre (SIIC), IIT Kanpur, and has proven to be quite an effective measure in this regard. Now with the CSIR-IMTECH validation, the technology can be termed pioneering in its efforts to combat COVID-19.

Ravi Kaushik, CEO and Founder, AiRTH, realised the limitations in the existing purification technologies, while he was pursuing his Masters in Environmental Engineering at IIT Bombay. He nurtured his idea to shape it into AiRTH. With guidance and support from Prof. Amitabha Bandopadhyay, Professor-in-charge of the Startup Incubation and Innovation Centre, IIT Kanpur, AiRTH was incubated.

The Department of Science and Technology (DST), Government of India, played a crucial role in testing the prototypes, with validation from trusted and respected laboratories of India like CSIR-NPL, CSIR- CDRI, amongst others.