

IIT Ropar unveils plant-based smart air-purifier

01 September 2021 | News

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Scientists of the Indian Institutes of Technology (IIT) Ropar and Kanpur and Faculty of Management Studies of Delhi University have developed a living-plant based air purifier 'Ubreathe Life' that amplifies the air purification process in the indoor spaces.

IIT Ropar's startup company, Urban Air Laboratory, has developed Smart Bio-Filter that can make breathing fresh. It has been incubated at IIT Ropar, which is a designated iHub - AWaDH (Agriculture and Water Technology Development Hub) by the Department of Science and Technology, Government of India.

The technology works through the air-purifying natural leafy plant. The room air interacts with leaves and goes to the soil-root zone where maximum pollutants are purified.

The novel technology used in this product is 'Urban Munnar Effect' along with patent-pending "Breathing Roots" to exponentially amplify the phytoremediation process of the plants.

There is a centrifugal fan that creates a suction pressure inside the purifier, and releases purified air, formed at the roots, through the outlet in 360 degree direction. The specific plants tested for air purification include Peace Lily, Snake Plant, Spider plant etc. and all have given good results in purifying indoor air.