

Development of "Healthy Air", a Herbal-based Immunity Boosting Room Freshener

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Defence Institute of Advanced Technology, a Deemed to be University, Pune has now developed herbal-based immunity boosting room freshener product named "Healthy Air" to contain the spread of COVID-19.

The product Healthy Air has been developed by Deptt of Metallurgical and Materials Engineering with various extracts of herbal oils like Neem, Neelgiri, Camphor, Daalcheeni, Tulsi, Lemon, Turmeric, Laung, Ajwain, Lavender, Elaichi, Turmeric, Natural Vetiveru, Raimuniya and Pine Oil. The product consists of a blended solution of the natural herbal oils, which instinctively acts as an immunity booster for the body, and exhibits Anti-cancerous, Anti-microbial, Anti-viral and Anti-fungal properties. It is herbal-based product is non-carcinogenic, non-toxic, non-mutagenic, and purifies the air, and makes it breathable.

The product is also experimented in Aerodynamic state of the art Laser Based Visualisation Lab for understanding the flow profile, formation of primary aerosol particles, aerosol breakdown thresholds as a function of particle size, particle density etc. It resulted that formation of secondary particles are not noticed which result in poor dispersion of primary particles.



The product has resulted to removing the toxic fumes, cleanses the air, and does not contain any synthetic solvent / surfactant in its formulation. Further, it possesses the stress and anxiety reducing capabilities upon breathing and helps in treating the respiratory illness. Considering the blend of herbal extracts, the developed product acts as a natural insecticide, with no toxicity for human body, and in addition acts as a room freshener.

Healthy Air does not contain any synthetic chemicals nor secondary solvents. Whereas the commercial room fresheners mostly contains synthetic adsorbents, surfactants, disinfectants, oxidizers, allergens, and chemical air sanitizers in the main formulation could affect respiratory system & brain neural sensing, do not contain any immunity boosting agents and does not possess the anti-bacterial properties.

Healthy Air supports respiratory condition in healthy way, does not affect brain neural sensing and useful for people suffering from allergic reactions, breathing problems related to asthma, headache, nasal irritation, or soreness in throat as the product is mainly made of natural herbal extracts which works as immunity booster.

The product can be used in any kind of rooms, conference halls, at public places, hospitals, malls, cinema halls, waiting lounges / rooms of Airports / Railway Stn etc. This product is packed in a container with wick also will be loaded in a dispenser.

The technology transfer of this product freely available for Indian technology start-ups, and companies in its fight against the current pandemic situation.

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