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DRDO develops equipment for effective public sanitation

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Ready with technologies for sanitising areas of different sizes



In the continuing quest for developing indigenous solutions to combat the Corona Virus Pandemic, Defence Research and Development Organisation (DRDO) is ready with technologies for sanitising areas of different sizes.

The Centre for Fire Explosive & Environment Safety (CFEES), Delhi has developed two configurations of sanitising equipment. These are spinoffs from technologies developed for fire suppression applications.

Portable Backpack Area Sanitisation Equipment

The CFEES, Delhi with the help of its industry partner has developed portable sanitisation equipment for spraying decontamination solution consisting of one per cent Hypochlorite (HYPO) solution for sanitisation of suspected area.

The portable system can be mounted as a backpack and can be carried by the operations personnel. This system incorporates low pressure twin fluid (air & disinfectant liquid) technology to generate very fine mist. The system is capable of disinfecting upto 300 square metre area. The application areas can include hospital reception, doctor chambers, office spaces dealing with general public, corridors, pathways, metro and railway stations, bus stations, etc.

Trolley Mounted Large Area Sanitisation Equipment

The Centre with the help of its industry partner has also developed a higher capacity which is carried on a trolley. The system incorporates low pressure single fluid (disinfectant liquid) technology generating very fine mist. It is capable of disinfecting upto 3,000 square metre area.

It has a tank capacity of 50 litres and has a lancing (throw) distance of 12-15 metres. This is useful for disinfecting hospitals, malls, airports, metro stations, isolation areas, quarantine centres and high risk residential areas.

Two of these systems are being provided to Delhi Police for immediate use. These can be made available to other agencies with the help of industry partners.