

Researchers develop tractor-mounted sanitizing device

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New Delhi, April 20 (India Science Wire): Health authorities strongly recommend sanitization as one of the means to contain the outbreak of coronavirus. The Central Mechanical Engineering Research Institute (CMERI), one of the institutions under the Council of Scientific and Industrial Research (CSIR), has developed a tractor-mounted sanitizing system to carry out sanitisation work on roads to fight against novel coronavirus.

This Road Sanitization Unit can be effectively deployed in the long stretches of highways, the areas around toll plazas, etc. These are places where the probability of spreading of the infection is high due to massive volume of traffic. It can also be deployed in housing complexes, office complexes, sports arenas, apartment buildings, etc.



Tractor-driven Disinfection Spray Unit

The Road Sanitizer has a span of 16 feet, which uses 15 to 35 bars of pressure to ensure effective delivery of the sanitizer. Twelve nozzles are used to ensure optimum radial coverage of sanitizer. The system utilizes a 2000 to 5000 litres tank with a pump, which can spray about 22 litres of sanitizer per minute. In practical terms, one full tank of sanitizer can sanitize a stretch of road about 75 kilometres.

Prof. Harish Hirani, Director, CSIR-CMERI, said that the tractor-driven disinfection spray unit is equipped with a technology that ensures comprehensive disinfection of a particular area. Its extendable hand-held operability will also ensure that the disinfectant reaches the inaccessible nooks and corners of a given site. Maximum coverage of disinfection is the need of the hour in the country, he added.

Asansol Municipal Corporation, after inspecting the unit, has placed an order for four such systems, of which one has already been delivered. Durgapur Municipal Corporation has also expressed interest for the Unit and procedural negotiations are under progress. A few micro, small, and medium enterprises and small business clusters have also expressed interest in the Unit and talks are underway with each of them. (India Science Wire)

Keywords: tractor-mounted disinfection spray unit, sanitisation, CMERI, CSIR

