

Self-Disinfectant Walk-in Tunnel designed by ICAR-CAZRI, Jodhpur

Global outbreak of COVID19 has caused severe pandemic in most of the countries including India. The national lockdown has significantly checked the spread of COVID19. In this lock down, ICAR institutes are responsibly looking after essential duties like livestock maintenance, water supply to nurseries, harvesting of experimental trials, green fodder production etc. with bare minimum manpower following rules of social distancing. Hand-wash with soap and sanitization with sodium hypochlorite (0.06-0.07%) is also recommended in daily routine to minimize chance of virus infection.



In view of this, ICAR-CAZRI has developed a Self-Disinfectant Walk-In Tunnel which can be used by persons entering CAZRI campus (24x7). The unit is fabricated using angle iron of dimension 2.43m x 1.21m x 1.82m (LxWxH), the structure is clad with UV stabilized polythene sheets fixed using aluminum profiles. A tank of 500 liter capacity is used as a container for filling disinfectant i.e. sodium hypo-chloride. Total nine foggers are fixed along the side walls and roof, to create a uniform misting condition inside the chamber. The water supply is pumped to the chamber through a filter using a half HP centrifugal pump. After exiting from the disinfectant tunnel, fresh water supply is also provided to wash hands with soap.

This facility is being used by instate employees, their family members and labourers working in the institute. The disinfectant solution required per person for a 5 seconds walk is 275 ml which cost ₹ 0.20 per person. The estimate cost of complete unit is approximately ₹15000. The details can be obtained from ICAR-CAZRI Jodhpur.