

## **For consideration under COVID -19 Initiatives by NITs**

### **Title: Handheld ON-OFF and Door opening –closing product**

Category: Personal Protective Care and Equipment

#### **OUTCOME:**

The COVID-19 affected persons can spread the novel corona virus to other persons by coughing or sneezing out a droplets. If the other person breathe in these droplets from an affected person, they can also catch the COVID-19. Among the transmission modes, the Contact transmission is a one other route that's thought to play a role in the spread of COVID-19. In that situation, viral particles emitted from the respiratory tract of an infected individual land on a surface. When a person touches that object, then touches their nose, mouth or eyes, the virus then sneaks into the body via the mucous membranes, infecting the second person. So far, no one knows how common this mode of transmission is, but it does seem to be possible. One study found that SARS-CoV-2 could remain viable on surfaces such as cardboard for up to 24 hours, and on plastic and steel for 2 to 3 days. Therefore **it is proposed to make a simple product which everyone can have it like their house/office room/vehicle key with them always to operate electric switches, computer, to open and close the doors.** The product can be sanitized frequently by the individuals. The product can be fabricated by using 3-D printer or by any machining based on the material used.

**Expected Time-line:** 1 month

**Remarks:** Funding requirement -Rs. 20,000/-

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