



Automated UV Systems

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Why in News

Recently, the **Research Centre Imarat (RCI)**, has developed an **automated contactless UVC** (short-wavelength ultraviolet light with wavelengths between 200-280 nanometers) **sanitisation cabinet**, called **Defence Research UltraViolet Sanitiser (DRUVS)** and an **automated UVC currency sanitising device**, called **NOTESCLEAN**.

- RCI is a **Hyderabad** based Defence **Research and Development Organisation** (DRDO) premier lab.
- Earlier, DRDO had developed **UV Blaster (ultraviolet disinfection tower)** for rapid and chemical free disinfection of high infection prone areas.

Defence Research Ultraviolet Sanitiser



- It has been designed to sanitise **mobile phones, iPads, laptops, currency notes, cheque leafs, challans**, passbooks, paper, envelopes, etc.
- The DRUVS cabinet has a **contactless operation** which becomes crucial to contain the spread of **Covid-19** and other viruses.
- It has **proximity sensor switches**, clubbed with drawer opening and closing mechanism which makes its operation automatic and contactless.

- It provides **360 degree exposure of UVC to the objects** placed inside the cabinet and it **automatically goes into sleep** mode after the sanitation process.



NOTESCLEAN

- The device picks the note inserted from the input slot and **makes them pass through a series of UVC lamps** for complete disinfection.
- It **will save a lot of time** because disinfection of each currency note by DRUVS or any other sanitising process is a time consuming process.

Defence Research and Development Organisation

- It works under the **administrative control** of the **Ministry of Defence**.
- **Objective:** To establish a world class science and technology base for India and provide Indian Defence Services decisive edge by equipping them with internationally competitive systems and solutions.
- It was established in **1958** after **combining Technical Development Establishment (TDEs)** of the Indian Army and the **Directorate of Technical Development & Production (DTDP)** with the **Defence Science Organisation (DSO)**.

Source: PIB