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CSIR - CENTRAL SCIENTIFIC INSTRUMENTS ORGANISATION
Chennai Centre, CSIR Madras Complex, Taramani, Chennai - 600 113. INDIA

Test Certificate of UV-C Irradiance

Date: 30/06/2020

Certificate No.	CSIO/20-21/UV-C/07
Date of Receipt	18/06/2020
Name of Organisation	Godrej Security Solutions (Godrej & Boyce Mfg. Co. Ltd.)
Address	Plant 17, Pirojshanagar, Vikhroli, Mumbai - 400079, Maharashtra, India
Test Conducted	Spatial Uniformity of UV-C Irradiance using Optical Detector in a Mesh
Identification Method Used (derived from)	1. IEC 60904 - 09: Photovoltaic devices - Part 9: Solar Simulator Performance Requirements (T 82 Working Group of IEC): Testing of Spatial Uniformity, Temporal Stability and Spectral Irradiance 2. ANSI – Illuminating Engineering Society of North America: Guide for the Measurement of UV Radiation from Sources LM 55 96 3. Ultraviolet Germicidal Irradiation Handbook UVGI for Air and Surface Disinfection - Wladyslaw Kowalski, Springer Publication, 2009 4. Chun-Chieh Tseng & Chih-Shan Li (2007) Inactivation of Viruses on Surfaces by Ultraviolet Germicidal Irradiation, Journal of Occupational and Environmental Hygiene, 4:6, 400-405, DOI: 10.1080/15459620701329012
Description of Instruments	Godrej UV Case 54 Litres
Environmental Condition	Standard Temperature and Humidity Conditions (**Temperature** 25°C. **Humidity:** 45% RH)

Observations:

As per references indicated in "identification method used" section, the test specimen generates sufficient energy dose in 5 to 10 minutes to reduce single strand RNA Virus (SARS CoV-2/Covid19) to more than 99% on the surface.

(Anand VP)	**(Robert Sam)**	**(Kota Srinivas)**
Tested by	**Checked by**	**Authorized Signatory**