Press release and press note for Shivaji University Kolhapur-Ecoscience Innovation Pvt. Ltd., Pune for the joint launching of "Virus Kavach Fabrics Technology" through a Consultancy Pilot Project of Product Development at School of Nanoscience and Technology

AntiViral Fabric Spray coating to protect against Bacteria and Coronavirus

The School of Nanoscience and Technology, Shivaji University, Kolhapur is reporting that novel Virus Kavach Fabric Technology demonstrated excellent results when tested against bacteria.

The pilot project on Product Development and Validation of "Virus Kavach Fabrics Technology" for its Antimicrobial and Antiviral Properties is being led by Prof. Kiran Kumar K. Sharma with the support from Prof. Pramod S. Patil and Dr. Kiran D. Pawar.

After extensive testing and evaluation in the laboratory, Virus Kavach Fabric Technology is now validated for its wide spectrum of Antimicrobial properties. Coated fabric deactivated 99.99+ % of gram-positive (Staphylococcus aureus) and gram-negative bacteria (Escherichia coli) on 15 minutes of contact. In addition, Virus Kavach coated fabric was tested for its antiviral properties at Bio Safety Level 4 lab in the USA by Ecoscience Innovations Pvt. Ltd., Pune. Results showed **Virus Kavach coated fabric deactivates 99.99+% of SARS-CoV-2** (virus responsible for COVID-19)

SARS-CoV2 virus dwells on surfaces for as many as 7 days. Such high surface stability of the virus poses significant risk for potential transmission by touching the surface contaminated with virus. Fabric surfaces such as clothes represent large potential for virus contamination and spread. Virus Kavach fabric technology has potential to be a powerful tool in preventing the spread of the Coronavirus.

"Virus Kavach Fabrics Technology" is an easy to apply by spraying on the fabric. Once dried it provides protective shield that will sustain until washed. Fabric coating can easily be recharged after wash by simply spraying on the fabric. Technology is developed by Ecoscience Innovation Pvt. Ltd., Pune which consists of naturally occurring organic carboxylic acid compounds, listed as non-toxic, ecosafe by the United States Environmental Protection Agencies (USEPA) and approved by the Foods and Drugs Administration USA.

At the present scenario of COVID-19 surge in India, **"Virus Kavach Fabrics Technology**" will serve as an invaluable tool in the fight against COVID-19.

Virus Kavach Solution is also listed as top 5 finalist in Covid19 Solution challenge by Atal Innovation Mission (AIM) and NITI Aayog, Government of India.

The School of Nanoscience and Technology acknowledges **"Centre for Nanofabrics"** funded by SPD-RUSA, Maharashtra and funds from **Ecoscience Innovation Pvt. Ltd.** Pune, for the successful completion of **'Virus Kavach Fabrics Technology'** which is a societal need at present.