

COVID-19 Technologies Developed by S N Bose National Center for Basic Sciences

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National Research Development Corporation (NRDC), an enterprise of DSIR, Ministry of Science and Technology, has entered into an agreement with Paulmech Infrastructure, Kolkata, to transfer two COVID-19 control technologies developed by S.N. Bose National Centre For Basic Sciences (SNBNCBS), Kolkata, an autonomous research institute under the Department of Science and Technology.

Technologies Developed

The two technologies developed by SNBNCBS and transferred by NRDC are:

- **An active respirator** with attached exhalation valve and suspended particulate matter filter for comfortable and hygienic breathing, and
- Long-lasting **nano-sanitiser** with a dispensing antimicrobial layer.

The active respirator mask is an innovative solution to the **rebreathing of carbon dioxide, exhaled moisture**, and sweaty and hot environment inside the mask. It also improves the clarity of speech of a person with a face mask and **assures comfortable, hygienic breathing** to protect the wearer from exposure to airborne contaminants.

The Long-lasting nano-sanitiser innovation is a solution to the problems caused by the use of the general sanitisers like **dehydration of skin** due to frequent use, and nature of

instantaneous antimicrobial action of common sanitisers without protective role. This innovative sanitiser technology assures comfortable and hygienic hand sanitisation for a longer duration.