

# 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.