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TECHNOLOGY

Amrita N96 Nano 'Made in India' Masks Unveiled by Amrita Vishwa Vidyapeetham Scientists at Underneath Rs 200

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The Amrita N96 Nano 'Made in India' Masks by scientists of the Centre for Nanosciences and Molecular Medication at Amrita Vishwa Vidyapeetham has been launched in India. The price-effective masks is claimed to supply "superior filtration and breathability" than the traditional N95 and surgical masks. It's out there to buy on Flipkart at Rs 179 (pack of three) and may be washed as much as 30 occasions to reuse. The official Flipkart itemizing highlights that the Amrita N96 Nano Masks contains a "distinctive nanoengineered filter fabricated with electrospun polycaprolactone (PCL) nanofibers with diameter 240 nm." It's mentioned to supply excessive particle filtration effectivity of 96% with out compromising breathability – the 2 essential hallmarks of a facial masks.

Explaining how the masks works, Dr Deepthy Menon from Nanosciences, Centre for Nanosciences and Molecular Medication at Amrita Vishwa Vidyapeetham, mentioned in an announcement, "These layers [on the Amrita N96 Nano Mask], made of fabric derived from polypropylene fibre, enclose nano-fibre membrane between them. The distinctive hydrophobic nature of this membrane fully blocks the passage of micro-droplets and water aerosols from one aspect of the layer to the opposite. That is what protects the wearer from respiratory respiratory micro-droplets exhaled by one other particular person and getting contaminated. This washable, sturdy and reusable masks ensures 99.9 % bacterial and virus aerosol filtration."

When it comes to design, the Amrita N96 Nano Masks encompasses a no-frill design and is extra akin to a surgical masks with blue color cloth. The ear-hoops are product of elastic to make sure an ideal match no matter face-type. The Amrita N96 Nano Masks can be claimed to be examined by the South India Textile Analysis Affiliation (SITRA), the main laboratory backed by the Union Ministry of Textiles to check masks and PPEs within the nation. Dr Shantikumar Nair who's Dean (Analysis) with Centre for Nanosciences & Molecular Medication added that the distinctive N96 Nano Masks is "far forward of typical surgical and N95 masks" in offering safety to the wearer.