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**Godrej & Boyce aims to
strengthen Vaccine Cold Chain
till the last mile, for India and
the World**



Unveils 'Made in India, for the world' ultra-low-temperature freezers (below -80 °C), expanding its existing portfolio currently deployed in India's Covid Vaccination Drive.

With advanced vaccine cold storage technology, Godrej & Boyce makes India atmanirbhar and ready, for vaccines of the future

Partner to ongoing Covid Vaccination Drive in India, Godrej & Boyce ready for last mile Covid vaccine deployment

9th February 2021, India:

Godrej & Boyce, the flagship company of the Godrej Group, has been contributing to making India self-reliant since its inception. Taking a step further towards building the nation's healthcare infrastructure, Godrej & Boyce through its business unit Godrej Appliances, has been partnering the ongoing Covid vaccination drive in India through its advanced, made in India, medical refrigeration solutions which safeguard the sensitive vaccines at just the right temperature. Today, it added state of art ultra-low temperature freezers to its portfolio, strengthening the vaccine cold chain further. These advanced medical freezers can preserve life-saving medical supplies including critical vaccines below -80°C and are aimed at boosting both Indian and global medical cold chain.

Click to watch the video: [Ultra-Low-Temperature Vaccine Freezers \(below -80°C\) for COVID Vaccine Storage](#)



Godrej Vaccine Refrigerators being manufactured at its Shirwal plant

Godrej Appliances is currently deploying vaccine refrigerators which maintain a precise temperature of 2 to 8°C to store the highly temperature sensitive Covaxin and CoviShield vaccines being administered in India, as part of the national tender it received in October 2020. Medical Freezers which maintain -20°C are also being deployed for diluents and ice packs needed for the last mile delivery in the Covid vaccination drive. The vaccines run the risk of damage if they are subjected to fluctuations beyond the specified temperature band, leading to both health and economic implications.

The ultra-low temperature freezers are a new addition to this portfolio and are particularly suited to mRNA-based vaccines which are being deployed in other countries currently. The mRNA-based Covid 19 vaccines are extremely temperature-sensitive as well and must be stored at very cold temperatures. mRNA is constantly at risk of being destroyed by other molecules in the environment. Although manufacturers of the vaccines have made chemical changes to the synthetic mRNA and wrapped it in a protective layer, they need to be stored at temperatures as low as below -80°C, to prevent wastage of vaccines, which has a direct implication on human health. Hence, any wastage or inefficiency in the vaccination process due to logistical issues related to cold chain must be avoided.

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The operating principle for the Godrej Ultra Low Temperature freezer is a cascading system having a PHE (Plate heat exchanger) as a heat exchanger between the primary and the secondary system. This lowers the standing pressure of the secondary system leading to lowering of temperature. Additionally, Godrej Ultra Low Temperature Freezers have inbuilt safety systems with alarms to protect secondary compressor in case of unlikely pressure build up. Features like (a) 2 step sealing & Internal separate doors to help avoid temperature ingress and (b) Oil recovery for secondary system for long running, boost the overall efficiency of the unit during operation. Furthermore, back-up systems like Liquid CO2 or Liquid NO2 ensure safety of stock stored, by maintaining a stable temperature for over 48 hours, in case of a power outage or an unlikely system failure.



The current capacity for Ultra Low Temperature Freezers is 12,000 units per annum, which Godrej Appliances is working towards quickly ramping up to 30,000 units per annum, to meet the growing global demand.

Godrej Appliances is also exploring other ways to assist in the next phase of vaccine deployment till the last mile. It has successfully piloted a mobile clinic in rural Maharashtra, running an ambulance equipped with a vaccine refrigerator, without connecting it to a power source for three days. The temperature was monitored every 2 hours and met the required temperature norms. As India accelerates the pace of vaccinations, more agile remote deployment may hold the key to success.

Click to watch the video: [Godrej Vaccine Mobile Clinic - An ambulance fitted with the Godrej Vaccine Refrigerator](#)

Godrej & Boyce has been committed to serving the country especially in the trying pandemic times, through its diverse offerings – be it through medical components - Hospital Bed Actuators and Electro-magnetic valves for ventilators, or through disinfectant devices aimed at keeping the population safer at home, or setting up socially distant offices to keep people safe at work; and is proud to serve not just the country but the world with Made in India medical refrigerators, freezers and ultra-low temperature freezers, at a time when they are most needed.

Commenting on the recent developments, **Mr. Jamshyd Godrej, Chairman and Managing Director, Godrej & Boyce Manufacturing Company Ltd.** said, *“Depth of coverage and sustenance of Covid-19 vaccination drive will be key to ward off further spread of the pandemic. Today, nations across the globe are facing challenges in running effective covid-19 vaccination programs. Inadequate cold chain equipment is one of the key challenges, which can lead to inefficacy of the vaccines and cost human health. With Godrej’s decades of expertise in refrigeration technology, the brand offers a range of advanced cold storage solutions for vaccines and life-saving supplies that can help governments across the world in their fight against the covid-19. This pandemic has underscored the need to be future ready when it comes to vaccine cold chain infrastructure. As a group we are constantly transforming to get newer technologies and partner to make the nation self-reliant. Our latest offering of Ultra Low Temperature Freezers will help make India more ready for vaccines of the future as well. This endeavor also brings alive our ethos of Made in India for the World.”*

Commenting on these developments, **Mr. Kamal Nandi, Business Head and Executive Vice President, Godrej Appliances** said, *“We are glad that we have been able to apply our refrigeration expertise in developing a strong vaccine cold chain in India at a critical time. Our medical refrigerators and medical freezers deliver the precise cooling temperature of 2°C - 8°C and -20°C respectively, needed for the vaccines being administered by India currently. Now, with our newly launched range of advanced ultra-low temperature freezers, which can provide a temperature of below -80°C, India will also have the storage solutions readily available, for other Covid-*

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19 vaccines being deployed across the world. We are partnering with various stakeholders in strengthening the healthcare cold chain and aiming to assist in other potential vaccine roll out challenges - like through mobile clinics for last mile vaccine deployment in remote areas, for the next phase of Covid-19 vaccine inoculation."

About Godrej & Boyce: Godrej & Boyce ('G&B'), a Godrej Group company, was founded in 1897, and has contributed to India's journey of self-reliance through manufacturing. G&B patented the world's first springless lock and since then, has diversified into 14 businesses across various sectors from Security, Furniture, Appliances, Aerospace to Infrastructure and Defence. Godrej is one of India's most trusted brands serving over 1.1bn customers worldwide daily.

About Godrej Appliances: Godrej Appliances, a business unit of Godrej & Boyce, is one of the leading Home Appliances players in India. Godrej & Boyce was the first Indian Company in 1958 to manufacture Refrigerators and since then Godrej Appliances has expanded its portfolio across many other categories like Washing Machines, Air Conditioners, Microwave Ovens, futuristic Thermo-electric cooling solutions, Air Coolers, Deep Freezers, highly specialized Medical Refrigerators and more recently, UVC Technology-Based Disinfecting devices and Dishwashers, all powered by the driving philosophy of 'Things made thoughtfully'.

This thought extends from human-centric design to planet centric design. Environment is a core value at Godrej. Both manufacturing units of Godrej Appliances became the first in the country to win the coveted Platinum Plus Green Co certification for their pioneering green manufacturing practices.

The brand takes pride in not just its carefully designed products and environment-friendly technologies, but also best in class after-sales service delivered through over 680 service centers and more than 4500 SmartBuddy service experts spread all over the country.

To learn more visit: <https://www.godrej.com/godrej-appliances>



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