



## Welcome



**Vijay Shah**  
Vice Chairman, Piramal Glass

Pharma companies and research institutions globally are involved in the process of developing a COVID-19 vaccine as well as medication. At least eleven vaccines and several drugs having advanced to the clinical trials. In recent times, several experts and media outlets have expressed unfounded fear and anxiety of a potential global shortage of type-1 glass vials (injectable) and infusion bottles to bottle Covid-19 vaccines and medication, once it is developed. For the COVID-19 immunization program, an additional demand might be expected. However, we at Piramal Glass along with the other global pharma type-1 glass manufacturers are well prepared to serve this demand. We can, at a short notice of four weeks, double our capacity to manufacture and supply moulded type-1 glass vial and infusion bottles. As a global specialist in type-1 glass, we have been playing a vital role in this crisis by ensuring constant supplies for the global pharma industry. Besides, to cater to the global need for healthy, superior-quality and sustainable products, we have designed and developed a safe and an eco-friendly product range in Water Bottles and Hand Sanitizers, which promotes human well-being and reduction of environmental impacts.

## Piramal Glass USP Type-1 Glass Vials – Safe Packaging for Global Pharma Industry



Recognized globally among the top four companies with a comprehensive in-house capability to produce borosilicate type-1 moulded glass containers, we continue to manufacture and supply essential and safe glass vials and infusion bottles for the global pharma industry, during this global pandemic. Our ISO 15378 certified type-1 glass manufacturing facility at Kozimba, India, with a dedicated capacity of 45 tonnes per day (TPD) or ~1400 million type-1 glass vials and infusion bottles per year, is one of the most modern facilities in India. The facility ensures particulate-free and contamination free type-1 glass vials and infusion bottles. Besides, we have allocated another 45 TPD furnace for type-1 glass as a backup. Hence, we can double our offering at a short notice. We have a professional team, fully trained according to the GMP norms to ensure the highest maintainable quality. In tandem with the global pharma industry norms, the safety of both our teams and our products that we supply are extremely important for us. We maintain the utmost hygiene standard inside the facility. As a practice, we have made personal hygiene, clothing, and additional protective apparel and equipment mandatory for all individuals inside the facility.



**Dedicated and Modern facility for Type-1 Glass Packaging with Global Regulatory and Process Compliance:** We manufacture USP type-1 glass vials and infusion bottles in both Amber and Flint colour from 2 ml to 500 ml capacity that can cater to both single and multi-dose applications. Our type-1 glass vials and infusion bottles are suitable for complex pharma products like liquid injectable drugs, oncology and lyophilized products owing to its excellent hydrolytic resistance and a lower coefficient of thermal expansion. Our manufacturing plant is DMF (Drug Master File – the USA and Canada) certified and ESP (European Pharmacopeia) compliant.

We have specialized facilities to develop no-wash category bottles, which are equipped with control rooms to monitor temperature, relative humidity, airflow, microbe, and particle count. Our facility is equipped with clean rooms. The cold-end of the 45-TPD facility, a closed controlled environment, have state-of-the-art camera-based inspection systems to auto inspect the defects and reject the ones that are not up to the standard before they are delivered to the customer.

## Our Eco-Friendly Glass Packaging Will Help Create a Safe and Healthy Family Ecosystem.



In the post-COVID world, health, positive aesthetics, and environmental sustainability shall be influencing the global landscape, regulations, and consumer psyche. Tomorrow's health-conscious and eco-friendly consumers will drive development and innovation in global packaging trends that will align with their desire for natural, superior-quality and sustainable products. Glass Packaging naturally becomes the ideal choice as it is natural, highly sustainable, eco-friendly, 100 percent recyclable, safe, and have a premium and positive appeal. In this regard, we plan to focus on our global imprint in the safe and sustainable packaging segment. We have added Water Bottles and Hand Sanitizer bottles to our growing list of safe and sustainable glass-packaging product range.

## Glass Packaging is the Ideal & Safest Choice for Water Bottles



In order to encourage the usage of glass water bottles instead of plastics, we have conceptualized, designed, and packaged market-ready range of products, multiple variants of glass water bottles. We have designs in sizes of 500 ml, 750 ml, and 1L. We have swing-top and wide-mouth glass water bottle variants. We were one of the first brands to launch glass water bottles with wash-proof, ceramic print on them. We make a wide range of water bottles both in Sri Lanka as well as India manufacturing facilities.

### Do Not Drive and Drink Toxic Water Campaign

As part of this campaign in Sri Lanka, we have tied up with the 'Believers in glass,' movement to give away free Piramal Glass water bottles for water storage. The main objective of this campaign is to encourage population to carry water or store water only in glass containers. Educate them regarding the benefits of glass packaging and harmful effects with most plastic packaging.

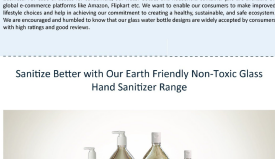


## Sharing the Sustainable Product Range with the End-Consumer through E-Commerce



To counter the increasing competition and confusion in different forms of unsafe packaging, especially in the food and beverage segment, in the consumer's mind, we have moved in the business to consumer, e-commerce business. For ease of access for consumers, our water bottles and household container jars are available on global e-commerce platforms like Amazon, Flipkart etc. We want to enable our consumers to make improved lifestyle choices and help in achieving our commitment to creating a healthy, sustainable, and safe ecosystem. We are encouraged and humbled to know that our glass water bottle designs are widely accepted by consumers with high ratings and good reviews.

## Sanitize Better with Our Earth Friendly Non-Toxic Glass Hand Sanitizer Range



To cater to the growing global demand for personal safety and hygiene and as a global sustainable glass-packaging manufacturer, we have designed and now manufacturing our Hand Sanitizer Glass bottle range. Our lightweight hand sanitizer glass bottle range is available in 50ml, 100 ml, 250 ml, and 500 ml variants. They are versatile and universal and hence can be used everywhere from health care facilities, corporates, households, restaurants, shopping malls, retail shops etc.

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