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PIRAMAL GLASS NEWSLETTER

Pharmaceutical

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WELCOME

With the changing market dynamics, the global pharma industry standards are becoming more stringent. The industry is focusing on greater operational effectiveness to tackle the tough market scenario.

We at Piramal Glass have been working hard to develop ourselves as a reliable partner in glass packaging for the global pharma industry. To align with the industry, we have made new investment to upgrade our type-1 glass facility in Kosamba India. You can read more about it in this newsletter.

With our glass packaging products, we are continuously contributing to the global health and well-being.

Vijay Shah,
Director, Piramal Glass Limited

Piramal Glass has upgraded its type-1 glass facility to align with the dynamic global pharmaceutical packaging requirements

Piramal Glass, since 1984, is a foremost supplier of superior quality moulded amber and flint glass containers for the global pharmaceutical industry. We have a capacity of 420 tonnes per day (TPD) for type-I, II, and III amber and flint bottles and vials, dedicated for the pharmaceutical industry.

Today, we are recognized among the top three companies in the world with a comprehensive in-house capability to produce borosilicate type-1 moulded glass containers, for which we have a dedicated facility. During the past 12 months, we have undergone an extensive upgradation and modernization measures in this facility to meet both present and future customer requirements and stringent pharmaceutical industry standards.

The upgraded 45-TPD facility in Kosamba, India – dedicated for type-1 pharmaceutical glass packaging

Our manufacturing plant in Kosamba, India have a dedicated facility with a capacity of 45-TPD to manufacture type-I borosilicate glass for moulded pharmaceutical packaging products. This type of glass is suitable for very complex pharmaceutical products such as injectable drugs because of its excellent hydrolytic resistance and low alkaline leach rate. This facility is certified for ISO 15378:2011, a Good Manufacturing Practice (GMP) system meant for primary packaging in pharmaceutical industry. Our human resource is fully trained according to the applicable GMP norms to ensure the highest maintainable quality.

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UPGRADATION OF BOROSILICATE TYPE-1 GLASS BOTTLE FACILITY

To satisfy the stringent regulatory requirements of the global pharmaceutical industry for primary packaging, all stages of our manufacturing process have to reflect the required capabilities. Hence, during the past twelve months we have invested around USD 85 million to modernize our facilities with the state-of-the-art infrastructure.

This includes upgradation of our "type-1 glass" furnace of 45 TPD. This overhauled facility with four lines provides the best in class configuration in terms of technology, design, and layout to serve our global pharmaceutical customer requirements.

Focus on manufacturing particulate-free glass packaging

The global pharmaceutical regulators, like the USFDA, are strongly committed to eliminating particulate in injectable drugs to improve patient safety. Our upgraded 45-TPD facility will ensure manufacturing of particulate-free and contamination-free type-1 glass containers. Also we have maintained an utmost hygiene standard inside the 45-TPD facility. As a practice, we have made personal hygiene, clothing, and additional protective apparels mandatory for all individuals inside the 45-TPD facility.

Our 45-TPD facility produces products in accordance with the common pharmacopoeia requirements. The USFDA and the Canada Health have assigned us the respective Drug Master File (DMF) numbers. We have specialized facilities to develop no-wash category bottles, which are equipped with control rooms to monitor temperature, relative humidity, air flow, microbe, and particle count. This facility is also equipped with clean rooms.

Controlled environment for packaging and inspection

The cold-end of the 45-TPD facility is developed into a closed unit, so that all inspection and packaging operations take place in a controlled environment. A new layout for the cold-end has reduced the number of actions involved in the process. The conveyor is now covered with a canopy on the top to prevent dust contamination. Special LED lightings are installed through these lines in order to develop appropriate illumination and also optimize the power usage.

At the cold-end of the 45-TPD, state-of-the-art camera based inspection systems are installed to auto inspect the defects and reject the ones that aren't up to the standard before they are delivered to the customer.

- IRIS Evolution-12 inspection machines auto inspect opaque defects like bubble, stone, black-spot etc.
- IRIS Evolution-5 inspection machines auto inspect top and bottom defects, like bubble, stone, black-spot, line over finish etc.
- HEYE inspection machines auto inspect thickness, checks, and gauging.

In addition to the moulded glass manufacturing facility in Kosamba, India, we have three other manufacturing facilities; one in USA, one in Sri Lanka, and one in Jambusar, India with an overall capacity of 1375 TPD. We also design, produce, and decorate specialized glass packaging for the global cosmetics, perfumery, skin-care, food, and beverage industry.

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