



BENGAL  
GLASS



An ISO 9001:2008 Company



The Bengal Glass Works Limited is Bangladesh's only fully automatic glass plant capable of producing glass bottles for the packaging of pharmaceutical, food and beverage products as well as producing glass lamp shells for incandescent light bulbs.

#### Climate Champion in Green Operation

Bengal Glass was awarded with the HSBC-The Daily Star Climate Award for "ground breaking success in reducing energy consumption, waste management, heat/carbon emission and water and paper recycling."



#### Quality Policy (ISO 9001:2008)

Bengal Glass is committed to achieving customer satisfaction by providing the highest quality of products, addressing customer's feedback with highest priority, meeting regulatory & statutory requirements and continually improving the effectiveness of the Quality Management System.

#### Pharma Bottles



#### Glass Lamp Shells



#### Food Bottles



#### Beverage Bottles





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From its inception in 1967, Bengal Glass has been committed to producing the highest quality of products, keeping in line with international manufacturing quality standards and procedures for safety and environment control. As a result, it has won the trust of the major local and multinational pharmaceutical companies operating in Bangladesh and abroad. Today, its bottles are used to package allopathic, homeopathic, personal care, agricultural, and veterinarian products. Simultaneously, Bengal Glass is also meeting the country's entire demand for glass lamp shells and providing light to the entire country. In early 2013, the company also began production of glass bottles for packaging of food and beverage products.

Few of our clients:





If you could buy your favorite food or beverage in any kind of container, what type would it be?

"Don't Know": <0.5%



Trend Report, June 2011, [www.GlassIsLife.com](http://www.GlassIsLife.com)

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Made from nontoxic raw materials - sand, soda ash, limestone, and up to 70 percent recycled glass or "cullet" - glass is the only packaging material accepted worldwide as "generally recognized as safe". Glass has **no chemical interaction**, ensuring that the products inside a glass bottle keep their strength, aroma, and flavor. Glass **does not deteriorate, corrode, stain or fade**, so products inside a glass container remain as fresh as when they were bottled. Glass packaging gives people confidence that the product is pure.

Key Features	Benefits
Inert and chemically inactive	- Does not undergo any transformation when subjected to chemical reactions
Pure and safe	- Does not contaminate content even if it is acidic - Can be hermetically sealed - Is nontoxic and impermeable
Odorless	- Does not emit any odor
Sterilizable	- Allows sterilization, as well as pasteurization
Longer shelf life	- Protects products against the effects of temperature and light
Nonpolluting	- Has least pollution impact compared to other packaging options (eg. PET)



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With two container glass furnaces, the company has the capacity to produce 400 million USP Type III bottles per year of various sizes for packaging of allopathic, homeopathic, food, beverage, personal care, agricultural and veterinarian products. The third furnace produces 133 million Glass Lamp Shells per year of various designs for the incandescent lighting industry. The furnaces run on natural gas with diesel oil as backup.

All the furnaces are equipped with control rooms, which are used to manufacture bottles all around the year with 94% pack-to-melt efficiency. A captive power plant provides uninterrupted power supply to the facility. The plant has the latest machines and equipment sourced from reputed suppliers. For example, the Furnaces are designed by SORG, Batch House from Zippe, IS Machines from Emhart, Rotary blowing machines from Olivotto, and Lehrs from Pennekamp.

The facility is supported by mould design and manufacturing workshops. The mould design unit consists of designers who work on CAD-CAM software for product drawings and the mould workshops are equipped with state-of-the-art CNC machines.



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The focus on quality is engrained in every aspect of the company's activities. As an ISO 9001:2008 Bureau Veritas certified company, the Quality Management System (QMS) at Bengal Glass enforces that each step of the manufacturing process is strictly controlled and monitored at international quality standards.

To support the quality control, the plant has a well equipped chemical laboratory which is responsible for inspection of incoming raw material as well as constant improvement in the quality of the end product. The lab is equipped with a Flame Photometer for alkali and extract testing, Polariscope for checking glass annealing, Spectrophotometer for color and light transmission measurement, Densimeter, Ramp Pressure Tester, Thermal Shock Tester and several other tools.

The company stresses on importance of continuous efforts in product development and quality control. The on-going quality development in glass bottles and glass lamp shell production process is one of the company's important aspects of its quality management system to enhance customer satisfaction.



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It is important to realize that glass is a highly energy consuming industry. A glass furnace operates at temperatures of 1500°C and as a result a significant amount of energy is required. These resources are costly as well as precious and therefore it is vital for Bengal Glass to implement energy efficiency measures at all levels of the manufacturing process. Along with efficiency, Bengal Glass is committed to recycling glass as a raw material in addition to reusing water and heat, while limiting the release of harmful gases into the environment.

The environmental measures undertaken have contributed to savings of 10,286 tons of CO2 emissions during the 12 month period from November 1, 2010 to October 31, 2011. These efforts were also recognized by the prestigious HSBC-Daily Star Climate Awards and Bengal Glass was awarded the prize for "Climate Champion in Green Operations" in December 2011.



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