

## ECOFRIENDLY AND BIODEGRADABLE PAPER BOTTLES PRODUCED BY THE KAGZI COMPANY IN INDIA

[The innovative startup company Kagzi Bottles](#) based in Noida, Uttar Pradesh, India, has designed and manufactured an eco-friendly and 100% compostable paper bottle to replace single-use plastic.

The Kagzi bottles are made using local paper waste. The fibres in the waste paper enable it to become long lasting and the shelf-life of the bottle is therefore 6 months. A specially designed ecological cork seal caps the bottle ensuring safety of the product from getting contaminated. The Kagzi bottles do not contain any plastic components, they are 100% biodegradable and cheaper than plastic ones.

The paper bottle has been designed by Samiksha Ganeriwala through a long research process for finding alternative packaging sustainable solutions in order to reduce plastic pollution. In 2016, she set up her own packaging solutions company and it was during this time that she began to explore alternatives to plastic bottles involving designers and scientists of the sector to develop the product.

The Kagzi website emphasizes that single-use plastic, from carrying bags to packing covers and water bottles, has become a major threat to the environment. According to 2018-19 reports, India generates about 3.3 million metric tonnes of plastic waste annually and a major chunk of it either ends up in landfills or clogs up water resources resulting in a damaged aquatic ecosystem. In 2019 the Government of India issued a provision to ban single-use plastic items like bags, spoons and cups, underlining the urgency of creating alternatives for these everyday products.

In this context, while working on a project for one of her clients on eco-friendly packaging Samiksha Ganeriwala decided in 2018 to set up the [Kagzi company focused on creating 100% biodegradable paper bottles](#).

In December 2020, after two years of work and experimental tests, the prototype of the bottle which contains no plastic and is 100 per cent compostable was launched and the company started its production. This work involved research for the materials to be used, for the production process and also the invention of suitable machinery to make the paper bottles.

[The website describes the production process of the Kagzi Bottles](#) and the characteristics of the product. The bottles are made using paper waste, which is currently being sourced from a company based in Uttar Pradesh. This waste paper is then mixed with water to break it down and get a mixture called pulp. This is then moulded into the desired shape of two halves of a bottle. Following this step,



the halves are then spray painted with a waterproofing solution that mimics the water-resistant properties of a banana leaf. Finally, these two halves are then glued together using a hot press to create the bottle.

Kagzi is the first India's 100% biodegradable paper bottle and offers a patented packaging technology useful to replace single-use plastic. To showcase that it is a product made in India the company decided to be named Kagzi, derived from the Hindi word *kaagaz* meaning paper.

With an initial investment, the company is currently producing bottles that can be used to store toiletries as shampoos, conditioners and lotions. The company however is working towards creating bottles also for food and beverages and plan on setting up manufacturing units in four cities across the country.

The company believes that these compostable bottles have the potential to replace plastic as a packaging material in the future and, above all, that their impact on the environment will certainly be beneficial. These eco-friendly paper bottles can help India achieve its goal of phasing out single-use plastics by 2022. Also to achieve these impact objectives, as well as to involve new investors and buyers, the Kagzi company carries out a promotional campaign on the urgency of adopting new production processes and new products that can make it possible to solve the major environmental problems generated by pollution.

Meantime, the Kagzi bottles have been widely made known through articles in the national and international press.

### To know more

[Kagzi Bottles website](#)

[Kagzi Bottles in Facebook](#)

[Article in thebetterindia.com](#)

[Article in careerguide website](#)

[Article in corepo.org](#)

[Article in papermart website](#)

[Article in Owlivers Post](#)

[Article in Clean Future website](#)

[Article in natureadmire.in](#)

