

## **India's first biodegradable bottle: DRDO Mysuru's pioneering launch**

In a major step towards reducing plastic pollution, the Defence Food Research Laboratory (DFRL) in Mysuru, part of the Defence Research and Development Organisation (DRDO), has introduced a groundbreaking product: India's first biodegradable water bottle. This exciting development was revealed at a national conference held at the SDM Institute of Management Development on Sept. 29, 2023.

These new water bottles are made from a material called polylactic acid (PLA), which is known for being biodegradable. This means they can break down naturally and won't harm the environment like regular plastic does. Every part of the bottle, including the cap and label, is designed to be compostable. This makes them a much more environmentally friendly option compared to the usual plastic bottles we use.

The process used to make these bottles ensures they are of high quality and consistent in their make-up. Despite being eco-friendly, these bottles are just as strong and safe for carrying water as the plastic bottles we are used to. The material, PLA, is not only good for the planet because it can break down naturally but also because it's made from 100% renewable resources. This means making these bottles doesn't use up resources that can't be replaced, reducing our impact on the environment even more.

The introduction of these biodegradable water bottles is a significant move for India, showing a strong commitment to finding innovative solutions to environmental problems. The DFRL's initiative is expected to lead to a big decrease in the amount of plastic waste we produce. Over time, as more people start using these bottles, they could become a key part of making our world cleaner and more sustainable. The launch of these biodegradable water bottles is a big win for the environment. It represents a crucial shift towards products that not only meet our needs but also take care of our planet. This innovative product from the DFRL is a promising step forward in the fight against plastic pollution and a move towards a greener future.

Reference: <https://yourstory.com/2024/01/mysuru-drdo-lab-biodegradable-water-bottle-launch>