

# The Indian EXPRESS

14.09.2018

## IIT(BHU) TEAM FABRICATES A LOW-COST SYRINGE

Using 3D printing and biocompatible materials, researchers from Indian Institute of Technology (Banaras Hindu University) have fabricated a dual chamber prefilled syringe inspired from the conventional syringe. When approved for use in humans, the prefilled dual chamber syringes can be a boon to treat people in rural areas economically.

Researchers from Tissue Engineering and Biomicrofluidics (TEBM) laboratory, School of Biomedical Engineering under the supervision of Dr Sanjeev Kumar Mahto have invented a dual chamber prefilled syringe with the help of 3D printing. The internal separator of both the chambers is

made up of a biocompatible material that can be pierced with the help of stick provided inside plunger that will ultimately allow mixing of drug and diluent which further would be delivered to the patient. One of the significant advantages is that it reduces packaging waste. Dr S. K. Mahto with his research group has already filed a patent for this healthcare innovation.

