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Government supports commercialisation of 3-D printed patient-specific bone graft

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Integrating 3D printing with indigenously manufactured bioceramic raw materials

The Technology Development Board (TDB) under the Department of Science and Technology (DST), Government of India, has provided financial assistance to Ceramat, in Palghar, Maharashtra, for a project titled 'Calcium Phosphate-based Standard and Customised Patient-Specific Grafts by 3D Printing through Digital Light Processing Technology and Extrusion-Based Device'.

The project aims to commercialise advanced, patient-specific bone grafts using indigenously manufactured bioceramic materials and 3D printing technologies.

The use of indigenous calcium phosphate-based materials combined with advanced additive manufacturing is expected to expand Ceramet's current biomaterial capabilities, allowing it to expand beyond traditional graft products to more sophisticated, digitally designed, and patient-specific solutions.

This initiative will also help the company offer a wide range of bioceramic and orthobiological products through an integrated domestic manufacturing system.

The company's product portfolio includes technologically advanced biomaterials such as hydroxyapatite, beta-tricalcium phosphate, biphasic calcium phosphate, and bioactive glass, which are used in orthopedics, oral care, cosmetics, and industrial sectors.