

Title of Technology to be offered	Biphasic calcium phosphate nano-bio ceramic for dental and orthopaedic applications
Type of Technology	Process development
Area of Technology	Nanobiomaterials
Details of Collaborating Agency	M/S Eucare Pharmaceuticals, Pvt. Ltd. Chennai.
Uses	As a bone grafting material to be used for orthopaedics
Salient Features	A biomimetic process for producing bioactive biphasic calcium phosphate nano-bioceramic (combination of hydroxyapatite and tri calcium phosphahate in required stoichiometry) particles in the narrow size range of 80 nm – 100nm and uniform morphology
Scale of Development	Laboratory scale
Major Raw Materials	Hydrophilic synthetic / biopolymers, Ca and phosphate salts.
Major Plant Equipment/Machinery	Chemical Glass reactor with stirring facility, spray dryer and resistant heating furnace (1273K)
Details of specification	Materials specification as per ASTM standards
Status of Development	Process flow sheet developed
Ecological/Environmental Impact (if any, specify briefly)	Ecofriendly process
Patenting details	-
Commercialisation Status	Transferred and being Commercialized
Techno-Economics	Can be made available on demand
Key words	Nanobioceramics, biphasic bioceramics, bioactive