

## **Annexure –I**

**Name of Technology:** Hydroxyapatite granules for dental and orthopaedic applications

Name of Company:

Name and Designation of Contact Person:

Corresponding Address with Telephone Number and E-mail id:

Website Address

Products/Services handled

Annual Turnover of last three years (enclose audited balance sheets)

[Concessions as applicable to start-ups and MSME would be available in deserving cases]

Details of Income Tax registration, sales tax registration, service tax registration etc.

PAN number

Available Technical Manpower

Briefly state why you are interested in the technology

## **Annexure-II**

**Name of the Technology:** Hydroxyapatite granules for dental and orthopaedic applications

### **Description of the Technology:**

The technology discloses process of making hydroxyapatite (HAp) granules of various sizes and custom shapes with high porosity for dental and bone defect filling applications. The process provides high-purity HAp granules with high crystallinity and good biological properties

#### ***Product Specifications:***

Composition: HAp

Bulk density = 0.5 - 2 g/c.c.

Porosity: 40 - 70%

Pore size: 100-300  $\mu\text{m}$

Size: as per requirement (100  $\mu\text{m}$  to 3500  $\mu\text{m}$ )

### **Advantages:**

1. Simple and economical wet chemical synthesis route to make HAp.
2. High-purity, crystalline and porous granules with various sizes produced using this technology can be used to fill bone, dental and soft tissue defects.
3. The granules have excellent tissue bonding properties and has been launched in the market.
4. The Indian orthopaedic and prosthetic device market is valued at \$450 million, and is growing at over 30% per year.
5. High cost and affordability of devices by common people is a major concern since the industry is highly fragmented and dominated by imports with almost 80-85% of demand met through imports.
6. Currently no Indian technology

### **Abstract:**

Process of making hydroxyapatite-based granules of different size and porosity for dental and bone filling applications. The process provides high-purity HAp granules with high crystallinity and good biological properties.