



श्री चित्रा तिरुनाल आयुर्विज्ञान एवं प्रौद्योगिकी संस्थान, जवाहराकराकाय प्रौद्योगिकी कक्ष  
पूजप्पुरा, त्रिवेंद्रम- 695012, केरल, भारत  
(एक राष्ट्रीय महत्व का संस्थान, विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार)  
SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY  
BIO MEDICAL TECHNOLOGY WING  
POOJAPPURA, TRIVANDRUM - 695 012, KERALA, INDIA  
(An Institution of National Importance, Dept of Science and Technology, Govt. of India)  
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BMT-Purchase & Stores/TRC/SCTIMST/2023-24

Dated: 6/2/24

## TENDER NOTICE

Sealed quotations are invited from interested firm for the Development of Indigenous Automated Pattie Maker for Reducing Burden on Essential Manpower.

**Details of Work:** This project focuses on the development of an automated machine to produce surgical patties, which are used extensively in surgeries for absorbing bodily fluids and protecting tissues.

**Objective:** To streamline the production process of surgical patties and to reduce the reliance on manual labor, thereby easing the burden on essential manpower in medical facilities.

### Scope of Work:

- **Consultancy for Machinable Drawings:** Consultancy services to convert the conceptual design into machinable drawings, suitable for fabrication.
- **Consultancy for Mechatronic System Design:** Consultancy services to design optimized electronic and mechanical modules along with programming for the mechatronic system.
- **Design to Prototype Development:** Transforming the conceptual design into a proof-of-concept functional prototype.
- **Fabrication of Proof-of-Concept:** Constructing a working model of the device to demonstrate its feasibility and functionality.
  - The Automated Pattie Maker should be able to make surgical patties using one type of readily available raw material.
- **Pre-Clinical Testing:** Testing the prototype for performance, repeatability and reliability using one type of readily available raw material and documentation.

### Specifications:

- **Required features:**
  - Pattie to be made using standard available raw materials
  - Pattie dimensions: 12.5mm x 25mm (or as per clinical requirements)
  - Thread length: ~ 10 cm
  - Equipment Operating Power Supply: 230V AC, 50Hz

- Overall Dimensions: <50 cmx50 cmx50 cm
- Rate of production: ~5 Pattie per minute
- Overall weight: <10kg
- Simple, intuitive controls for easy operation.
- Emergency stop button to immediately halt the machine.

Interested firms may submit the quotation in sealed cover, addressed to the Sr. Purchase and Stores Officer, Biomedical Technology Wing, Sree Chitra Tirunal Institute for Medical Sciences and Technology (SCTIMST), Poojappura, Thiruvananthapuram-695012 on or before ~~21/02/2024~~, 4.00 PM.

In case of any further clarifications with regard to submission of tenders please be free to contact Purchase and Stores Division, BMT Wing well in advance before closing date of tender. (Ph: 0471- 2520228/2520438/328).

For technical enquiries please contact Ph: 9495983679,  
email:arunanirudhan@sctimst.ac.in

Last date of receipt of tender either through post/by hand or email-  
bmtstp@sctimst.ac.in, bmtoss@sctimst.ac.in, bmpurind3@sctimst.ac.in ~~21/02/2024~~,  
4.00 PM.

Sd/-

DIRECTOR