

13 April 2017

**Invitation for Expression of Interest for Technology Transfer
A DEVICE FOR MEASURING PRESSURE PULSES BASED ON APPLANATION
TONOMETRY**

Background:

There are invasive and non-invasive methods to measure blood pressure, but the invasive methods are painful to the patient and require trained medical professional, and good nursing care. On the other hand, non-invasive methods can be done easily in a clinical or home setting. However, with most non-invasive methods such as the cuff-based blood pressure device it is not possible to monitor true beat to beat pressure waveform. Pressure waveform have been found to be a useful indicator of cardiovascular health. IIT Delhi inventors have developed a non-invasive device based on applanation tonometry for monitoring pressure waveform. The device has a modular design and uses flattened plunger for arterial compression, with the geometry and underlying analysis well-supported through detailed computational and experimental analysis. The non-invasive device is simple, affordable, and cuffless.

Validation: The device has been developed at lab scale and tested in lab by IIT Delhi. The device needs further development, scale up, testing and regulatory approvals before-deployment in market.

Intellectual protection: An Indian patent application has been filed and is jointly owned by IIT Delhi and AIIMS.

Partnership for development and dissemination: Note this is not a hands-off technology transfer proposal. The group at IIT Delhi is committed to working on development and dissemination of technology. The group would work with the industrial partner for replacing the prototype and scaling up in India.

Eligibility criteria: The eligibility criteria are as follows:-

1. The company must be registered in operation and have to provide audited last 3 years balance sheet. Audited balance sheet less than 3 years will be considered in case of start ups with shorter operating history (Annexure I: enclose proof, copies of PAN, TAN, MOA and balance sheets).
2. The company must have a proven track record of manufacturing high end technical components and should have established in house manufacturing unit with qualified engineers. In absence of in house manufacturing facilities it should have requisite toll manufacturing arrangement with third parties.

(Annexure II: please provide qualifications of employees, experts and details of the facilities)

3. The company should have technical expertise to conduct clinical trials and network/collaboration with doctors and facilities to conduct the trials (Annexure III: please provide list of mentors, employees on board and collaborations which will enable clinical trials with ethical clearance and help getting the approvals).

How to apply: Interested parties have to submit the below mentioned documents along with a demand draft of Rs. 2000, in favour of FITT, IIT Delhi payable at New Delhi.

1. A brief statement of how the company plans to take this product forward, clinical trials and a commercialization plan.
2. Proof of registration and in operation of the company.
3. Copies of PAN, TAN and MOA
4. Company Brochure, facilities available and qualification details of the employees
5. A list illustrating technical expertise, mentors and network with doctors and hospitals/clinics.
6. Last three audited balance sheets.

Note: Expression of interest should be stamped and signed by authorized signatory.

Where to submit: The application along with the demand draft can be submitted as a hard copy to Managing Director, Foundation of Innovation and Technology Transfer, Deans Complex, Indian Institute of Technology, Delhi, Hauz Khas, New Delhi -110016 and a softcopy to mdfitt@gmail.com within ten days of this advertisement with envelope/subject marked as **EOI for pulse pressure technology licensing**.

Technology transfer terms:

1. The licensee will have to conduct clinical trials.
2. The Licensee's work performance will be monitored.
3. The licensee should submit annual statement of their sales/accounts.

Investment from company's side:

1. Costs towards the development and scale up of the device
2. Costs towards clinical trials
3. Costs towards technology transfer

Detailed terms and conditions will be shared with the selected company.

Next steps: All eligible parties would be called for presentation to assess their strengths before deciding on the technology transfer partner.

For any queries please write to mdfitt@gmail.com.