

Expression of Interest for Procurement of devices used for measurement of Health Parameters under Pilot Telemedicine Demonstration Project of TIFAC

Technology Information, Forecasting and Assessment Council (TIFAC) is an autonomous body of Department of Science and Technology, Government of India and is primarily a Technology Think Tank for the nation. TIFAC invites Expression of Interest (EoI) for Procurement of devices used for measurement of health parameters under Telemedicine Project of TIFAC, the brief of which is as given below.

TIFAC in collaboration with IIT Madras-Pravartak Foundation Technologies has conceptualized a scalable pilot demonstration telemedicine project to provide quality medical care at an affordable cost to under privileged women and children. The project aims to demonstrate efficacy of applying sensor based cutting edge technologies to reach out people living in inaccessible / hilly terrain. The Telemedicine pilot demonstration project will supplement the existing Telemedicine models and will focus on demonstrating the advanced and emerging technologies like IoT sensors, wearables, smart devices, Cloud for storing the information etc. besides generating health records.

The project would demonstrate the efficacy of portable medical sensor devices for tele diagnostics. The medical devices would be linked by C- DAC to the e- Sanjevani platform and the supplementary health data of the study population would be mapped and electronically stored.

Following tests/disease have been finalized for the project: **ECG, Heart Rate, Blood Pressure, Digital Stethoscope, Temperature, SPO2, Blood Sugar, Lipid Profile, Haemoglobin & Fetal Doppler.**

The requirement of the sensor devices for the project is as below:

TIFAC is looking for **supply of 7 (seven) number of appropriate sensor based portable device kits, requiring minimal human** interventions, suitable for diagnosis of the above range of tests/diseases. The equipment shall jointly form a single complex and perform the following functions, a set of equipment for the provision of medical services using telemedicine:

- Electrocardiographic examination (Heart Check up)
- Heart rate measurement
- Blood pressure measurement
- Body temperature measurement
- Blood oxygenation measurement
- Blood Glucose
- Lipid Profile

- Haemoglobin
- Mother & child care (Fetal Doppler)

It is estimated that each device would be used for diagnosis of ~10,000 persons over a period of next 6 (Six) months.

Essential Criteria for the Devices:

- i. Authenticated Restful Application Programming Interfaces (APIs) for devices to be provided and integration to be enabled (preferably through the Internet) by vendor for interoperability/smooth data exchange with third party health IT systems
- ii. Devices along with the associated accessories and required consumables. (requirement & cost of consumable to be mentioned separately).
- iii. The devices should be portable i.e. compact design, battery operated and low weight so that they are easily carried by people (The weight of one set of equipment preferably shall not exceed 6 kg).
- iv. The devices should have a battery backup of at least 3 hours on a single charge basis.
- v. Each set shall be accommodated in a easy pack/suitcase/kit.
- vi. Devices should be functional in low band width regions.
- vii. Devices should be platform independent or compatible with existing telemedicine platforms. (e-Sanjeevani)
- viii. The equipment must have a digital interface for inputting the examination data received from a patient.
- ix. Medical devices should be certified/compliant to Indian recognized Standards
- x. The onsite warranty period for the device/equipment should not be less than 12 months after supply/installation;
- xi. Supplier/s must provide after-sale services.

1. ELIGIBILITY CONDITIONS

- i. The agency must be a legal entity registered under relevant laws of India and must have a Head office in India.
- ii. The agency must have annual financial turnover of Rs.50 lakhs (Rupees fifty lakhs only) for last three financial years (2017-18, 2018-19 & 2019-20) as shown in audit report by a Chartered Accountant or Firm.
- iii. The agency must have at least 02 completed or in-progress similar order / contract / project of value Rs. 50 lakhs. (min) in last 05 years.

2. SUPPORTING DOCUMENTS REQUIRED

- i. Duly filled Technical and Financial information as given in **Table 1, 2 and 3** as below.
- ii. Self-certified copies of the **Audited Balance Sheets** or the certificate from a Chartered Accountant certifying the annual sales turnover of bidder for the previous three financial years (2017-18, 2018-19 & 2019-20) with turnover of at least Rupees 50 Lakhs (Rupees Fifty lakhs).
- iii. Letters of reference from at least two past customers along with contact, address etc. of each customer should be provided in order to show past performance in the execution of projects of a comparable nature and complexity.
- iv. The agency may inform about any award / appreciation by reputed jury / organization for completed or in-progress order / contract / project related to Telemedicine.
- v. The detailed technical specification, make, model, part number & compliance of each item offered supported by the printed catalogue / leaflet published by the Principal Manufacturer.
- vi. Self-certified photocopies of GST Registration certificate/PAN/TAN to be provided.
- vii. Information regarding any litigation, current or during the last three years in which the bidder was/is involved, the names and address of the opposite party(ies), case number and court in which pending and the disputed amount to be provided.
- viii. Details regarding any Purchase order / contract that was abandoned by the bidder at any stage or withdrawn from prematurely terminated or resulted in inordinate delay along with reasons for the same (copies of relevant documents to be enclosed).
- ix. Information regarding the proceedings for bankruptcy, insolvency or winding up, if any, in which the bidder was involved.

Table 1

1. General information about the Company / Agency

S. NO	Particulars	Details (with page number wherever applicable and write NA wherever not applicable)
1.	Name of the Firm / Agency / Company	
2.	Particulars of Agency a. Address (Registered Office) b. Tel. No. c. Fax No. d. E-Mail	

3.	Contact Person's Name and Mobile no.	
4.	Constitution of the Firm/Agency a. Indian Companies Act 1956 b. Indian Partnership Act, 1932 (please give name of partners) c. Any other Act.	
5.	Registration Number of the firm (Please attach self attested copy of Registration Certificate)	
6.	Letters of reference from at least two past customers along with contact, address etc	
7.	Any other Relevant information / document as required under Eligibility conditions.	

Table 2

2. Detailed descriptions of devices are as under:

Item Description	Disease covered	Device Size and Weight	Training Need (Yes/No)	Compliant with Telemedicine standards (Yes/No) if yes, give details	Device wireless/wired/blue tooth enabled/any other	Windows Desktop based/Android based	Track record	Delivery time	Device Warranty

Table 3**3. Details of Estimated Price of each devices**

Ite m No.	Description/Speci fication of Devices (please specify model)	Quantit y	Unit Price (Rs.) (excl. GST)	Total Price per Item (Rs.) (excl. GST)	Running cost for 10,000/ measurem ent (Rs.) (including cloud charges) - with break-up	AMC after expiry of mandatory 1 yr warranty(Rs)
I	II	III	IV	IV (=III x IV)	VI	VII
1	ECG	7				
2	Heart Rate	7				
3	SPO ₂	7				
4	Temperature	7				
5	Blood Pressure	7				
6	Blood Sugar	7				
7	Lipid Profile	7				
8	Hemoglobin	7				
9	Fetal Doppler	7				
	Total Price of Goods excl. GST					
	GST% (if applicable)					

Total Final Price Quotation (All-Inclusive)	
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Interested manufacturers and suppliers are requested to please submit the Expression of Interest containing requisite information as per proforma (Table 1, 2 and 3) along with all enclosures as given above to **Shri Sanjay Singh, Scientist-G and Head, MSME Programme, TIFAC** at Email ID : **sanjay_singh@tifac.org.in**

LAST DATE OF RECEIPT OF EoI THROUGH EMAIL IS SEPTEMBER 08, 2021