

## **Expression of Interest (EoI) from Proximate Government Academic Institutions or their Associated Societies for Outreaching the Rural Population 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) from Proximate Government Academic Institutions or their Associated Societies, in three districts of the country, as mentioned below for outreaching the rural population (especially women & children) for measurement of health parameters through tele-diagnostic devices (to be provided by TIFAC) and facilitating telemedicine consultations of these people/patients (wherever required) under Pilot Telemedicine Demonstration 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, supplemented with generation and maintenance of e-Health record of remotely located and underprivileged population (especially women and children).

The project aims to demonstrate efficacy of applying sensor based cutting edge technologies to reach out people living in remote / 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, SPO<sub>2</sub>, Blood Sugar, Lipid Profile, Haemoglobin & Fetal Doppler.**

Three districts have been chosen for the pilot demonstration project namely: **Varanasi, Gorakhpur** & one **district in Manipur.**

Each district would be covered in the span of Six (6) months by two outreach workers/field staff (one female and one male). The outreach workers would cover door

to door ~ 20,000 patients/ persons in each district (approx. 10,000 persons by each outreach worker).

Proximate Academic Institutions of repute or their Associated Societies mandated with outreach and extension activities (from the chosen three districts/state) are requested to submit their EoI for carrying out the above task with objectives and deliverables as defined under the project.

TIFAC would provide suitable financial compensation for the chosen Academic Institutes. However, it may please be noted that '*this project is purely an academic pursuit, with no commercial implications*'.

**The responsibilities of the Govt. Academic Institution or their Associated Societies would include the following:**

1. *Academic institutions/ Partners should observe all ethical and privacy norms during the data management.*
2. Two competent Outreach Workers/ Field Staff (one male & one female) to be engaged / deputed for the service. *These two outreach workers/ Facilitator's responsibility shall be coterminous with the project.*
3. Two set of devices would be provided by TIFAC (This would be property of TIFAC and would be returned at the end of the project.)
4. One Coordinator would be monitoring the activities of the field staff. He / She will also be responsible for local monitoring and overall coordination of the project.
5. Field visits to be carried out by each field staff on regular basis over a period of Six months to cover a rural population of ~20,000/-in each selected districts. The identified health parameters /tests/disease to be measured are as follows : *Electrocardiographic examination (Heart Check up), Heart Rate, Blood Pressure (BP) measurement, Digital Stethoscope recording, Body temperature measurement, Blood oxygenation measurement, Blood Glucose, Lipid Profile, Haemoglobin, Mother & child care (Fetal Doppler)* – devices for measurement of these parameters would be provided by TIFAC
6. The recorded data to be digitally uploaded on Tablet to be provided by TIFAC on the prescribed format.
7. Facilitation of telemedicine consultation through a Panel of Doctors (engaged by TIFAC) for the people/patients (wherever required).
8. E-Platform and cloud for uploading of data / information and interacting with panel of doctors would be provided by TIFAC through C-DAC / Ministry of Health and Family Welfare.

9. To provide a print out of the health record to every individual, whose parameters are measured & also a print out of the prescription, wherever Doctor's consultation has been done

Interested Proximate Government Academic Institutions or their Associated Societies are requested to submit their EoIs for carrying out the outreach services to **Shri Sanjay Singh, Scientist-G and Head, MSME Programme, TIFAC** at

Email ID : **sanjay\_singh@tifac.org.in**

within ten days of this notification with the following details:

1. **Name of Institution & its affiliation:**

Address; Tel No. & e-mail

2. **Name of Director/ Head:** Name and Contact details

3. **Coordinator for the project:** Name, designation and Mobile no.

4. **Track record** of reaching out to proximate areas with S&T support. Preference would be given to those Institutions having prior experience of reaching out with medical support services.

5. Proposed methodology / action plan for execution of this pilot demonstration project

**Signature and seal of Authorized signatory of the Institution**

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