

## TECHNOLOGY DEVELOPMENT PROGRAM HEALTHTECH

### Physiotherapy Solution for Trismus

Portable and remotely accessible IoT enabled device for easy monitoring of physiotherapeutic activity



#### Issue Being Addressed

- ▶ Patients diagnosed with head and neck cancer and oral submucous fibrosis frequently experience trismus
- ▶ It restricts the range of motion for an individual's mouth to expand
- ▶ Traditional treatment methods are often very painful

#### Key Feature of The Technology/Product /App Which Is Being Developed

- ▶ An affordable, self-operating, Internet of Things (IoT) device for the easy monitoring and management of Trismus
- ▶ The technology provides a pain-free physiotherapeutic treatment for Trismus

#### Impact & Benefit

- ▶ It is designed to benefit the people who live in rural areas.
- ▶ The doctors can monitor the patient's activity remotely and see the progress of recovery.

#### Team

- ▶ PI: Dr. Jose Immanuel R.,  
Associate Professor, IIT Bhilai
- ▶ Co-PI: Dr. Manish J. Raghani,  
Associate Professor, AIIMS Raipur

#### Lab to Market Program

#### Targeted Customers & End Users

- ▶ PHCs and CHCs
- ▶ Hospitals and healthcare professionals
- ▶ Patients

#### Commercialization Status

- ▶ Collaborated with AIIMS Raipur.
- ▶ Prototype is developed and deployed at various hospitals in Raipur district.