

For Identification of Startup to Provide Integrated IT/VR-Based Therapy Unit with Interactive Sensory Infrastructure for ICCONS

Kerala Startup Mission (KSUM), the nodal agency of the Government of Kerala for entrepreneurship development and innovation, proposes to invite Expression of Interest (EOI) from eligible startups for the supply and implementation of an IT/VR Integrated Therapy Equipment and Interactive Sensory Room Solution for the Institute for Communicative and Cognitive Neurosciences (ICCONS).

ICCONS is a pioneer institution under the Government of Kerala, engaged in comprehensive management, rehabilitation, education, research, and development in the field of developmental and acquired disabilities, catering to individuals from infancy to elderly.

The institution provides specialized services for conditions including, but not limited to:

- Autism Spectrum Disorders (ASD)
- Learning Disabilities
- Intellectual Disabilities
- Cerebral Palsy
- Single and Multiple Congenital Anomalies
- Epilepsy
- Post-stroke and Post-traumatic Syndromes
- Degenerative Disorders affecting the nervous system

In order to strengthen therapy outcomes through technology-enabled, immersive, and evidence-based interventions, ICCONS intends to deploy advanced interactive therapy and sensory integration infrastructure with support from KSUM.

The objective of this EOI is to:

- Identify innovative startups capable of delivering IT/VR-enabled therapy and sensory integration solutions suitable for clinical and rehabilitative environments
- Assess technical capability, clinical relevance, content depth, and scalability

Scope of Work

The selected startup shall provide a fully integrated therapy unit, combining therapy equipment, interactive technology, sensory infrastructure, and digital content, tailored to the clinical and rehabilitative needs of ICCONS.

3.1 Integrated IT/VR-Based Therapy & Sensory Unit

The integrated unit shall include:

- Immersive interactive environment comprising:
 - Three (3) interactive wall projections and one (1) interactive floor projection
 - Real-time motion, gesture, and body-tracking for children and adults
 - Multi-user and group therapy support
- Therapy-grade hardware, including:
 - High-resolution, high-lumen projectors suitable for clinical indoor settings
 - Sensors / cameras for accurate user interaction and movement detection
 - Central computing and control system with therapist interface/dashboard
- Built-in sensory integration components, covering:
 - Visual sensory stimulation (dynamic projections, light and colour modulation)
 - Auditory sensory stimulation
 - Safe, inclusive, and child-friendly design compliant with therapy standards
- Configurable therapy modes adaptable for:
 - Different disorders, age groups, and therapy objectives
 - Individual and group therapy sessions

3.2 Digital Therapy & Sensory Content

- Provision of a minimum of 500 therapy-oriented interactive contents, including:
 - Cognitive stimulation and attention-building activities
 - Gross and fine motor skill development modules
 - Sensory integration and regulation activities
 - Balance, coordination, memory, and executive-function exercises
- Content shall be:
 - Clinically relevant and therapy-focused
 - Categorized by disorder, age group, and therapy outcome
 - Customizable and configurable by therapists
 - Available in English (Malayalam support desirable)

3.3 Implementation & Support Services

- Site assessment and therapy space planning at ICCONS

- Supply, installation, integration, testing, and commissioning of the integrated unit
- Training for therapists, clinicians, and operators
- Warranty, AMC, and post-deployment technical support