

NATIONAL COIR RESEARCH & MANAGEMENT INSTITUTE

Kudapanakunnu, Trivandrum

NCRMI/Interactive tech/005C/16

14.11.2016

**Re-tender Notice**

NCRMI invites competitive sealed tenders from interested and competent agencies for the supply and installation of Interactive technology - touch wall and motion sensor for NCRMI. The tender shall reach the Director, NCRMI on or before 25.11.2016 before 2.30 PM. The tender will be opened at NCRMI in the presence of the tenderers, if any present at 3.00 PM on 25.11.2016. For more details log on to [www.ncrmi.org](http://www.ncrmi.org).

Director  
NCRMI

## **Terms & Conditions**

1. Technical bid and financial bid should be submitted in separate covers superscribing - "Technical Bid" & "Financial Bid" separately.
2. The relevant experience of firms in supply of related equipments for firms preferably Government organization should be attached with the Technical bid.
3. The Quotations shall reach on or before 25.11.2016, 2.30 PM. The tender will be opened at NCRMI in the presence of bidders, if any present at 3.00 PM on 25.11.2016. The Director, NCRMI reserves the right to accept or reject any or all the tender without assigning any reasons whatsoever.

**The Director**  
**National Coir Research & Management Institute**  
**Kudapanakunnu .P.O**  
**Trivandrum - 695043**  
**Tel - 0471 2730788**

DIRECTOR  
NCRMI

## **Specification**

### **Interactive Technology - Touch Wall + Motion Sensor**

Laptop, Ultra short-throw projector & sensor

#### **Laptop Specifications:**

Supported Operating Systems and Architectures

- Windows 8 or higher
- Laptop will have the following capabilities.

- 64-bit (x64) processors
- Dual-core, 3.1-GHz
- USB 3.0 bus dedicated to the touch sensor
- 2 GB of RAM
- HD graphics 6.0 that supports DirectX 9.0c
- Cache: 3.0 MB
- Max TDP/Power: 15
- Memory Types: DDR3L 1333/1600

#### Software Installed:

- Visual Studio 2010
- .NET Framework 4 (installed with Visual Studio 2010)
- Microsoft Speech Platform Software Development Kit (Version 11)
- Microsoft Speech Platform Runtime (Version 11)

The Depth - D3D and DepthWithColor-D3D samples also require:

- DirectX Software Development Kit
- DirectX End-User Runtimes (June 2010)

#### **Ultra-Short Throw projector specifications:**

- Power Supply: 100-240 V AC
- Power Consumption: 300 W
- Lens: Fixed (0.46: 1 throw ratio)
- Lamp: 230 W UHM lamp
- Screen size: 100 inches
- Brightness: 3300 Lumens
- Resolution: 1280 \* 800 pixels

## Touch-sensing unit:

- Hardware  
Camera, Emitter, mount, USB cable (12m), Ubi pen, power adaptor, tape/screws
- Calibration  
Automatic (16ms)/ Manual (36 points)
- Gestures  
Tap, swipe, zoom and pinch (all windows 10, 8 and 7 gestures)
- Touch points  
Up to 20 touch points
- Latency  
< 30 ms
- Accuracy  
+/- 1 Pixel (resolution: 4096 X 4096)
- Supported screen sizes  
Touch Kit: 40 inches to 80 inches  
80 inches display side by side in an extended setup. Additional emitter needed.
- Aspect ratio  
4:3, 16:9, 16:10
- View angle ratio of the sensor  
0.28, sensor to be installed 76cm/30inches from the display surface
- Wave length of the IR emitter  
940 nm
- Power  
3W
- Power of IR beam  
150mw X 2
- Power requirements for the emitter  
3V/1.5A
- Signal refresh rate  
60fps
- Connections  
The camera and PC should be connected by USB Cable  
The emitter and sensor should communicate wirelessly  
The emitter just needs power
- Weight  
05Kg to 1.1 lbs
- Dimensions

Emitter: 0.5Cm X 17 Cm X 2.4 Cm

- Supported OS  
Windows 7, Windows 8/8.1/10
- Minimum requirement of PC  
32 or 64 bit dual core, 2.66 GHz or faster processor, USB 2.0 bus, 2GB of RAM
- Certification  
CE, FCC

The Director, NCRMI reserves the right to accept or reject any or the entire tender without assigning any reasons whatsoever. For further information contact The Director, NCRMI, Near Doordarsan Kendra, Kudappanakkunnu P. O., Ph No.0471 2730788

DIRECTOR  
NCRMI