NATIONAL COIR RESEARCH & MANAGEMENT INSTITUTE

Kudapanakunnu, Trivandrum

NCRMI/Interactive tech/003C/16   22.09.2016

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 06.10.2016 before 2 PM. The tender will be opened at NCRMI in the presence of the tenderers, if any present at 2.30 PM on 06.10.2016. For more details log on to www.ncrmi.org.

Director

NCRMI

<u>**Details**</u>

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

- <u>.NET Framework 4</u> (installed with Visual Studio 2010)

- <u>Microsoft Speech Platform Software Development Kit (Version 11)</u>

- <u>Microsoft Speech Platform Runtime (Version 11)</u>

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

- <u>DirectX Software Development Kit</u>

- <u>DirectX End-User Runtimes (June 2010)</u>

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