



**INSTITUTE OF ADVANCED STUDY IN SCIENCE AND TECHNOLOGY**  
**An Autonomous Institute under Department of Science and Technology**  
**Govt. of India,**  
**Paschim Boragaon, Garchuk, Guwahati-781035**

**Advt. No-83**

**Date: 29/06/2017**

**EXPRESSION OF INTEREST (EOI)** in two bid system are hereby invited on behalf of Institute of Advance Study in Science and Technology(IASST), Guwahati; from reputed manufacturer/authorized distributors /dealers for supply, installation, design &development of Virtual Classroom at IASST, Guwahati.

### **1. PREAMBLE AND INTRODUCTION**

**EXPRESSION OF INTEREST (EOI)** in Sealed Cover containing both Technical and Financial Bid separately are hereby invited on behalf of Institute of Advance Study in Science and Technology(IASST), Guwahati; from reputed manufacturer/authorized distributors /dealers for supply, installation, design &development of Virtual Classroom at IASST, Guwahati.

### **2. SCOPE OF WORK**

IASST is looking for a Virtual classroom solution. The same solution is supposed to be installed in one of our newly built classroom. This room will have complete infrastructure to connect with remote classrooms. While, the proposed solution should be capable of extending the audio and video of the same classroom to another classroom in the same building. Here, the bidders are supposed to provide chairs and also to install acoustic panels in both the classrooms.

#### **Description of the solution:**

The complete success of requirement lies in its ability to conduct virtual classes in all possible scenarios. Following two possible scenarios are to be fulfilled for this solution:

When faculty remains outside & takes classes from there.

Here, the proposed solution should be such which allows faculties to connect with local classroom using own device such as desktop with webcam, laptop, and Android/IOS smart phones. This gives platform to ensure anyone to connect with or without having traditional VC infrastructure.

When Classes conducted in a classroom where the entire Video conferencing setup will be installed can be broadcasted to remote classrooms. In this scenario, all important videos like that of faculty and whiteboard should be captured and broadcasted simultaneously to remote classrooms. It should also be capable of capturing high definition images of any document while sending the same.

Accordingly, IASST is looking out for a solution complying with :

The proposed solution should have video conferencing solution which runs at a very low bandwidth. The codec should have inbuilt video mixture in it or the bidders must quote external video mixture in order to accommodate multiple cameras and the captured videos should be broadcasted to far end simultaneously. The proposed solution should support recording from day 1 up to 500 hours. The solution should be full HD ready, which means capturing and broadcasting of videos at Full HD (1080P) resolution. The proposed video conferencing infrastructure should have multipoint functionality at least from 4 locations; with license upgrade only without changing the VC hardware infrastructure. The solution should support file transfer for sharing files & multimedia content. It should have voice activated switching to have the active speaker on the main screen. The solution should support Data Collaboration features like Whiteboard, Data Presentations, Desktop Sharing, and Media File Sharing. It should also have a Presenter mode feature wherein the presenter should be able to force all the participants to see only the presenter video and if required broadcast other videos/Audio to all users/locations; which in return helps to minimize bandwidth consumption at remote locations. Presenter should be able to see other user videos at the same time if required. The solution should support Android, IOS clients.

The bidders are requested to quote adequate number of cameras. IASST strongly recommend bidders to visit the site first to have clear understanding of requirement. Institute wants to capture the lecturer & keep tracking the lecturer wherever he moves within the classroom **automatically**. The solution also should capture the whiteboard/interactive white board and the students present in the class with utmost clarity. All these videos should be broadcasted simultaneously to remote classrooms just to give a real classroom like feeling. **All these cameras should capture videos at Full HD resolution and should be capable of controlled remotely**. The solution should also have capability to capture the presentation and need to broadcast simultaneously to remote class.

The bidder can also suggest a solution for automatic zooming and focusing on to the student whenever student want to ask any question.

Professional grade Podium also need to be include to control all the functionality of the solution.

Bidders are also requested to quote one projector (minimum 3000 lumens with High contrast ratio) or a LFD for video output in first classroom along with the audio system and adequate number of microphones required.

As mentioned in the outset, the solution should allow remote faculties to connect local classroom using their own device such as desktop with webcam, laptop, and Android/IOS smart phones.

**Materials required for extension of display in second room such as Display system (Projector or LFD), Cables, HDMI extension Splitter, Speakers etc. should also be quoted by the bidder.**

**100 nos. of good quality chair with writing pad also need to be provided with the solution.**

**The solution provider also need to take care of the Acoustic Wall paneling of both classroom. And they should provide concept with their solution how much acoustic required in both classrooms.**

Bidders must comply with our requirement as specified above while failing to do so will mean rejection of that particular bid.

**Note: All interested bidders are requested to do a site survey first before finalizing their solution so as to minimize errors in quoting.**

### **3. ELIGIBILITY CRITERIA**

- The Bidder should be a reputed Manufacturer/authorized distributors/dealers having after sales service agreement with the OEM (proof for the same to be enclosed along with address, phone nos. & E-mail etc. of the Service Centre).
- If the bidder is an ISO certified Company, then documentary proof should be enclosed.
- The bidder should have experience of more than three years in execution and maintenance of I.T/Network/VC related projects (A certificate of establishment to be provided).
- The vendor should have the ability to supply, install, design & develop of virtual classroom System using leading commercial hardware's and software's as per required. This should be demonstrated by way of documents to be submitted under subsequent para 4. Further:
  - The vendor who propose to supply the solution shall have a local agent/dealer in Guwahati, Assam.
  - The vendor shall have technical expertise and capability to supply and maintain the Hardware and application software.
  - The vendor must have proven financial and organizational strength to undertake and execute the project.
  - The vendor must have yearly turnover of Rupees Two Crores for last three years.
  - The vendor should be a registered dealer under Assam VAT Act.
- Work has to be completed within 60 (sixty) days from the date of issue of work order.
- An amount of Rs.1,50,000/- will have to be deposited as Security Deposit in the form of Performance Bank Guarantee of any Nationalized Bank by the tenderer within 10 days of the date of issue of work order in-drawn in favour of the Director, IASST, Guwahati, failing of which the work order shall be treated as invalid. No work shall be allowed to be carried out,

if no security deposit is made within the aforesaid period. The security money will be released after 3 (three) years from the date of completion of work. The performance security money shall be forfeited: -

(a) If the tenderer fails to start the work for reasons solely rest on him.

(b) If the tenderer leaves/suspends the work for reasons which are not acceptable to the IASST.

#### **4. DOCUMENTS TO BE SUBMITTED BY ELIGIBLE VENDOR**

Interested vendors confirming the above requirements must furnish the following:

- Company Profile
- Write up on company's expertise to provide a total solution for establishing a using leading commercial of Software and Hardware.
- List of current/recent clients/references along with supporting documents viz. PO copy, Completion Certificate etc. where in project completed entails similar complexity and size.
- OEM authorized certificates for both software and hardware components is essential and in absence of same in the response can lead to disqualification.
- The firm must have yearly turnover of Rupees Two Crores per year for last three years i.e., financial year 2014-15, 2015-16 and 2016-17.
- Audited/Certified financial statements of latest three years from the Chartered firm must be submitted.
- Expression of interest in the project.

#### **5. Evaluation Methodology:**

IASST, Guwahati shall evaluate technical and financial strength of the responses received and invite participating bidders for a detailed presentation on respective responses. Based on the documents submitted and presentation, IASST shall short-list eligible bidders for further participation in the financial bid. Request for revised proposal for financial bid may be invited from Short-listed bidders.

6. The response along with the above required documents duly filled in for Technical presentation should be reached the Registrar, Institute of Advanced Study in Science and Technology (IASST), Vigyan Path, Paschim Boragaon, Guwahati – 781035 on or before 21/07/2017 by 5 P.M. No EOI will be accepted after due date and time.

7. As a part of short listing exercise, bidder has to make a focused presentation on company, expertise and experience in the relevant field, products, etc. for not exceeding 30 minutes before the Technical Committee of IASST, Guwahati. The date and time for presentation will be intimate in due course to the eligible vendors.

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