# Indian Institute of Technology Madras

## I.I.T.P.O., MADRAS-600 036

### P. G. Senapathy Center for Computing Resources

## Form for Inviting  Quotations

**Ref.No.**                                                      **Date:** 25.09.2013

| CC | Enqy | 2013 | 002 | SPL | 2509B |
|----|------|------|-----|-----|-------|

**Dear Sir / Madam,**                                        **DUE DATE:** 11/10/2013

1. Quotations are invited in duplicate for the the item described on pages 3 - 5. Additional conditions laid out on pages 3 to 5 are also mandatory.

2. The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.

3. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.

4. If the item is under DGS&D Rate contract No. and the price must be mentioned.  It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers).  If so please send copy of the RC.

5. Relevant literature pertaining to the items quoted with full specifications(and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.

6. Local Firms : Quotations should be for free delivery to this Institute.  If Quotations for Ex-Godown delivery charges should be indicated separately.

7.  Firms Outside Madras : Quotations should be for F.O.R. Madras.  If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated.  If Ex-Godown, packing, forwarding and freight charges must be indicated.

8.  The rate of sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted.  Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to non Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificate will be issued at the time of final settlement of the bill.

9.  Goods should be supplied carriage paid and insured.

10. Goods shall not be supplied without an official supply order.

11. Payment : Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later

Yours Sincerely,

Chairman

Computer Centre

Digital Media Server

P.G. Senapathy Center for Computing Resources (CC), IIT Madras is looking for a digital media server with the following specifications. The technical bid for this procurement shall include a compliance certificate in the format as given in the Section F and a detailed bill of materials being quoted for.

**Section A: Definition and features of the media server**

1. Media / content is defined as popular format video files, popular format audio files, images and documents.

2. Media player should not need client installations and should support standard browsers.

3. Media streaming and player should not need licensed software

4. Should use highly efficient – established codec. Codec should preferably be royalty free.

5. Should support HD video on HTML 5

6. Use a format that supports future format extensibility (such as an XML Derivative)

7. Should be stream-able over HTTP. Stream content on demand

8. Should be able to convert different content formats to standardized formats for easy streaming.

9. Categorize and rich tag content to support ease of retrieval.

10. Support media content retrieval with an intelligent "and" search engine

11. Identify and define standards, codec to ensure long term orientation of the architecture. Standards could include Adobe media server 5, WebM, OAI among others


**Section B. Features of installation at IIT Madras**

1. Platform is to be hosted on 64 bit linux machine of popular flavor (such as Ubuntu, CentOS, Fedora) and preferably open source database.

2. Platform is to be hosted on a virtual machine in the servers at IITM.

3. Platform can stream files from IITM servers to the Internet through partner's infrastructure.

4. Platform should present a mechanism for content upload in the IITM VLAN for authenticated users of specific role definitions. The upload feature need to be using the web front end and can be separate from the streaming media front end.

5. Platform should include a method to define videos for public access and authenticated access.

6. Platform should have a user-role based system to define fine-grained permission levels for uploading / approving / blocking / deleting of content.


**Section C. User experience**

1. Users should be able to personalize content streams based on their profiles – preferences

2. Users should be able to get alerts for new content in their topics of interest

3. New content should be approved by a peer group (configurable at the time of installation) to be searchable.

4. Multiple pluggable authentication modules should be included on the server. These could be, for example, AD / OpenLDAP / OpenID.

5. Authenticated users should be able to create their own channels

6. Authenticated users can share their channels – public or by request

7. Authenticated users can comment and review videos

8. Authenticated users can add search tags to be used by the search engine of the server.

9. Authenticated users can monitor the content and raise alerts for the administrators to act on.

10. Any user can share a published video in the community, Facebook, Twitter, Google circles, LinkedIn, blog, email.

11. Personalized content streams should be shared – public or by permissions

12. Integrate search engine with media streaming server – choose server from top 3 based on proof of concept that includes

    a.   use cases

    b.   stress testing

    c.   right set of industry standards

    d.   extensive use of Linux based open source systems


## Section D. Setup and support personnel

1. The procurement shall include an aggregation of media content from different repositories at IITM.

2. Personnel required for this aggregation will be present on-site for the contracted duration.

3. Vendor should be open to providing on-site personnel in a modular fashion eg., in terms of man months.


## Section E. Vendor Qualification

For each of the criteria below, vendor is required to provide documentary evidence along with the technical bid.

1. Considerable years (5+) of experience in Internet based software development

2. A track record of streaming media live on the Internet.

3. A comprehensive support organization to back the support delivery. Number of support staff employed by the organization to be stated.

4. At least two examples of prior experience in dealing with large volumes of content.

5. At least two testimonials of an experience in search and large data handling.


The following support possibilities are also required from vendor.


6. Vendor should be ready for rapid roll out and support proof of concepts.

7. Vendor should provide evidence of customizations made to suit the ethos of an educational organization and the approach that suits IIT Madras.

8. Vendor should be able to deliver support operations to support ongoing aggregation and ensure quality of search

9. Vendor should be able to deliver customer support through email, chat – as desired during the contracted durations.

## Section F. Compliance Certificate

Complaince certificate shall be in the following format.

| Section | Specification No. | Complaince Yes / No / Partial | Remarks | Reference |
|---|---|---|---|---|
|  |  |  |  |  |
|  |  |  |  |  |

Reference shall be para / page number of the supporting technical document included along with the technical bid.