

Reference No.: CC/500454/16-17

Date: 09.02.2017

**Two Bid Tender document
for
Appointment of an IT Consultant for establishment of a
Computer Centre with HPC facility at IIT(ISM)
Dhanbad**



**IIT(ISM) Dhanbad
Dhanbad-826004, JHARKHAND**

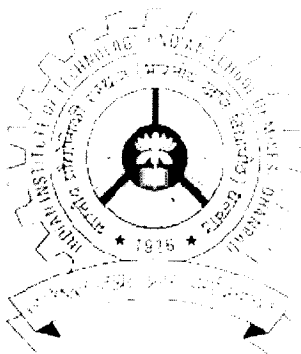
1.	Issue of tender document	09.02.2017
2.	Extended Last date and time of submitting tender	07.04.2017 till 1:00 P.M.
3.	Tender fee (non-refundable)	Rs. 1,000/- (One thousand only)
4.	Earnest Money Deposit (refundable)	Rs. 40,000/- (Forty thousand only)
5.	Opening of the Technical bid	07.04.2017 till 3:30 P.M.
6.	Date and time of presentation by shortlisted bidders	Will be communicated later via Email only.

Deputy Registrar (P&S)
P: 0326-2235612
F: 0326-2296633
E: drps@ismdhanbad.ac.in

Two bid Tender document

for

**Appointment of an IT Consultant for establishment of a
Computer Centre with HPC facility at IIT(ISM) Dhanbad**



IIT(ISM) Dhanbad

Dhanbad-826004, JHARKHAND

[Signature]
Asst Registrar (P&S)

P: 0326-2235612

F: 0326-2296633

E: *[Email Address]*

Invitation for Two bid tender document

Introduction

The IIT (ISM) Dhanbad is a premiere institute of higher education under Ministry of Human Resource Development (MHRD). It is located in the mineral-rich region of India, in the city of Dhanbad.

IIT (ISM) Dhanbad is planning to setup a Computer Centre cum Data Centre (Tier III standards) with 20 TF (Theoretical Peak with minimum 85% efficiency) High Performance Computing (HPC) cluster in its Old Lecture Hall Complex (OLHC) building to meet its upcoming IT, ITES and Computing Infrastructure as per the evolving standards of IITs.

The Institute also plans to build a state of art IT Infrastructure for the Campus, which would include Master plan & Building IT Design.

The present Computer Centre is operating from its own building situated near New Academic Complex of ISM Campus and is solely responsible for creating and up keeping the Information and Communication Technology & Computation related facilities available at IIT (ISM) Dhanbad since its inception in 1987.

IIT (ISM) Dhanbad invites two bids from reputed firms of India to provide consultancy services for formulating state-of-art solution for design, site preparation, supply, installation, testing, commissioning, operations and maintenance of basic infrastructure for the establishment of the proposed computer centre with HPC facility at IIT (ISM) Dhanbad.

Brief Requirements

In order to meet its upcoming Computing and IT services requirements, IIT (ISM) Dhanbad is planning to enhance Central Computing and Data Centre infrastructure at OLHC. The approximate built up area of the ground floor of OLHC is about 1304.71 sq. m. The proposed Computer Centre will comprise of 20 TF HPC cluster solution, Network Operation Centre (NOC) with video wall or similar using two large display units, 150 seater auditorium with smart class and video conferencing facility, One high throughput access lab, 2 class rooms having 50 seating capacity, staging and testing room, TELCO room, store room, fire suppressing cylinder room, adequate sitting chambers for Engineers/Technicians and staff members etc. Necessary Civil works, Electric works (including distribution of mains, lighting LT panels, UPS power and generators), Closed loop cooling, Air conditioning, Data Centre Infrastructure Management System (DCIM), Integrated Building Management System (IBMS) with physical security (access control) with fire fighting facility are required for the whole centre. The present structure of the building is about 8 years old. The bidder needs to be plan UPS room, battery room, panel room etc. within the closed areas of the building. The Chiller, DG sets and HT equipment to be planned in the external areas available just adjacent to the OLHC. Auditorium should have Display, Video, Audio and Unified Control System for setting up video conferencing facility. Institute has already floated EOI for "Appointment of an

Agency for Design, Site preparation, Supply, Installation, Testing, Commissioning, Operations and Maintenance of Basic Infrastructure for 5 years for the establishment of a Computer Centre with HPC facility at IIT (ISM) Dhanbad on turnkey basis" in a separate bid. The main aim of appointment of the consultant is to understand the whole requirements of the institute and transfer the same into the relevant sections of the concept design/ development design/ RFP finalization/construction drawings & document finalization and implementation stage so that it should meet the Tier III standards of Uptime/ TIA 942.

Tender document Submission Date and Time:

1.	Issue of tender document	06.02.2017
2.	Last date and time of submitting tender	07.03.2017 till 3:00 P.M.
3.	Last date of submission of any kind of clarification	23.02.2017 till 4:00 P.M.
4.	Opening of the Technical bid	07.03.2017 till 3:30 P.M.
5.	Date and time of presentation by shortlisted bidders	Will be communicated later via Email only.
6.	Tentative Cost of the Data Centre Cum Computer Centre Project	Rs. 14 Crore

The date of presentation will be informed through email only. It will be the responsibility of the interested firms submitting the tender to provide their communication details properly.

Interested parties are required to submit the hard copy of same to:

**Assistant Registrar, Purchase and Stores,
IIT (ISM) Dhanbad - 826004, JHARKHAND**

E: drps@ismdhanbad.ac.in

P: 0326-2235612

on or before the due date. Please send the document in a sealed envelope superscribing on the top of the envelope **"Appointment of an IT Consultant for establishment of a Computer Centre with HPC facility at IIT(ISM) Dhanbad"** with **Tender no. & due date.**

General Terms and Conditions:

1. The tender document must be accompanied with duly filled Information sheets and sufficient documentary evidence. Tender document within complete Information or insufficient documentary evidence shall be rejected.

2. IIT (ISM) Dhanbad reserves the right to modify, expand, restrict, scrap, and refloat the tender document.
3. Tender document cost: Cost of the document is to be paid by way of an a/c payee demand draft for an amount of **Rs.1000/-** drawn in favor of Registrar, IIT (ISM) Dhanbad and payable at SBI, ISM Campus Branch or any other Bank/Branch located in Dhanbad. Tender cost is non-refundable and non-transferable. Alternatively, intending bidders may download the complete set of tender document from IIT (ISM) Dhanbad website (www.ismdhanbad.ac.in) and submit the same duly signed on all pages by the bidders along with demand draft for tender document cost.
4. Clarification: Clarification, if any, about the requirement can be obtained by visiting Purchase Section/Computer Centre with prior information within the due date mentioned above. Queries received after the due date will not be entertained.
5. It will be the sole discretion of IIT (ISM) Dhanbad to or not to incorporate any changes in the requirement based on feedbacks/inputs/suggestions received during the presentation/discussion. The decision of the IIT (ISM) Dhanbad regarding acceptability of any suggestion shall be final in this regard.
6. Disputes, if any, shall be resolved mutually or shall be referred for arbitration to the Head of the Institution and his decision shall be final and binding on the firms. If arbitration fails, the dispute arising out of this shall be subjected to Jurisdiction - courts of Dhanbad only.
7. The firm is required to do the site survey and present the solution design thought process at the time of presentation and technical bid submission. The survey shall be carried out with prior permission of the institute authorities.
8. There should have a Single Point Of Contact (SPOC) from firm who is responsible for all issues between IIT(ISM) Dhanbad and the firm.
9. All necessary document(s) shall accompany the bid as these are considered to be essential for full and correct evaluation of the bid.
10. The bidder is to submit a CD/DVD containing all the design thought process with technical specifications.
11. The firm shall take and maintain at their own cost, insurance coverage against the risks of their personnel and properties relating to this assignment.
12. Consortiums/JV bidding is not allowed. The bidder shall be the single point of contact and shall be solely responsible for all deliverables.

Qualifying Criteria

The qualification criteria for selection of the firm are as under:-

- a. The firm / company must have minimum 5 years experience as on 31.12.2016.
- b. The firm must have minimum experience of having rendered IT Consultant services for successful completion of Data Centre for IITs/NITs/PSU/Govt./Public/Private Sector during last 5 years
- c. The firm should offer consultancy of the following:
 - At least 3 similar data centre projects of costing minimum Rs.5.6 Crore each

- or
- At least 2 similar data centre projects of costing minimum Rs. 8.4 Crore each or
- At least one similar project costing of minimum Rs. 11.2 Crore.

- d. The firm should provide proper documentary proof in support of satisfactory completion of above works in terms of Letter of award, Completion certificate from the clients indicating the date of commencement, date of completion & estimated & actual cost of execution of the work failing which it may be treated that they have not completed such works.

The following documents/documentary evidence for technical evaluation should be provided along with the proposal without which the proposal will be considered rejected:

- a. Proof of Turnover (Audited Balance sheet and profit and loss account)
- b. Details of assignment, client, value of assignment, date of award etc.
- c. Contract/Work/Engagement orders indicating the details will be appreciated.
- d. Methodology, work plan and understanding of TOR
- e. Details of Key Personnel for the project

Key Deliverables

Structured Cabling & Passive Components

- a. To study the Master plan of the Campus, along with MEC Services reticulation and workout the basic's of Voice & Data Network – Back Haul.
- b. To conduct site survey for finalization of best possible cable laying solution.
- c. Suggesting the dimensions of Ducts, Trenches, Raceway & Cable Tray Layout Plan (Which would be coordinated by the MEP consultant, in their design).
- d. To design the backbone solution for Voice & Data Network
- e. To define the required standards to be followed by the contractors while laying and terminating the cables.
- f. To define the technical specifications and implementation methodology of IT Pathways(External) for the Campus.
- g. To define technical specifications of Passive Components to be used in the Network.
- h. To help IIT (ISM) Dhanbad in finalization of RFP for Data Centre cum Computer Centre Facility at OLHC of the Institute.

Active Components & Internet Access

- a. To study the functional requirement of network and designing an efficient & secure network capable of delivering high throughput along with Network Diagram.
- b. Auditing the Network & gateway level security solution as per operational Team (Institutes IT Team) requirements and perceived threat levels.
- c. To conduct site survey for finalization of best possible, within stipulated budget, Wireless LAN solution.
- d. Auditing of Network, HSIA (High Speed Internet Access) and WLAN (Wireless LAN) as per standards & operational requirement of the organization with respect to the current market trends and technology.

- e. To audit suitable Internet Access framework, depending on the needs.
- f. Preparation of final RFP for data centre for active components with estimated value.
- g. Submission of consolidated report of all documents.

Telephony and ISP

- a. Requirement analysis of Telephony solution.
- b. Designing of Core architecture for setting up of future ready Telephony architecture.
- c. Designing the technical specifications for EPABX/IPABX.
- d. Generation of BoQ for telephony solution along with estimated value.
- e. To define the requirement of PRI & Analog lines.
- f. To define Voice Mail, Wakeup & Messaging specifications/requirements.
- g. To define the internet Bandwidth Requirements for Users (Internal/ external), in coordination with IIT (ISM) Dhanbad.

Wireless Network

At this point, "Wi-Fi is primarily related to mobility, giving people the ability to wander around the Campus and have access to Internet. Wireless is giving them real-time data access/ Internet, in the area's like Departments, Faculty Housing, Hostels, Lecture halls etc., for smooth transition (in coordination with a policy note issued by the institute, with regard to usage & areas to be covered):

- a. To audit the implemented/ongoing technology by understanding the needs.
- b. To ensure, that the network will be certified by the system integrator (with all documents, network layouts, equipment identification reports submitted, including Heat Map report & Physical Site Survey Report).
- c. To audit a secured in-dependend network.
- d. Define the best suitable equipments.
- e. Submission of final audit document for Wifi network & associated equipment.

Scope of Work

The services to be rendered by the firm, shall be performed in the following stages, forming part of the scope of work :

- a. Preparation of Data Centre cum Computer Centre at OLHC& Master Plan tender drawings, technical specifications of work & bill of quantities for IT Passive Cabling work for Master Plan.
- b. Render advise on the engineering services to be provided, space allocation as are required for the system enumerated above & setting of standards & specifications of works to be adopted.
- c. Preparation of detailed estimates of costs based on market rates.
- d. Furnish list of vendors & assist architect/ employer in selection of appropriate vendors when so required.
- e. Provide technical assistance during tender negotiations & finalization of contracts, when so required.
- f. Scrutinize & approve shop drawings, submitted by various vendors before issue at

- site. (after award of work to SI (System Integrator), within the stipulated time period).
- g. The firm will have to visit at least 12 times during the period as per written request of the IIT (ISM) Dhanbad. It may require to visit the site within short notice (02-03 days).
 - h. The firm should mention price as per Annexure-I

Method of Application

- a. The firm should submit the quotation in two parts:
Part-I (Technical): The technical bid should contain all the approach and methodology adopted, technical details and required documents along with completed information. It should contain un-priced bid along with terms & conditions. This envelope should be marked as "Technical Bid".
Part-II (Financial): The firm should submit the financial bids in separate sealed envelope. The envelope should be clearly marked as "Financial bid".
- b. The envelopes containing Part-I and Part-II should be labelled clearly and kept in a bigger sealed envelope.
- c. The prices should not be quoted in the technical bid.
- d. The bids should be signed on all the pages by the authorized signatory of the firm and should bear his/her name, position and seal.
- e. All Undertakings should be notarized i.e. through Notary Public, however State and Central Government PSUs can submit the undertakings on their letterhead.

Method of Selection

IIT (ISM) Dhanbad will judge the technical bids broadly on the basis of following reference points:

Firm's general experience and experience in similar assignments, preparing of feasibility reports, methodology, work plan and understanding the project requirements, proposal presentations and team members experiences in executing similar projects are main technical criteria; and

The financial proposals of only technically shortlisted firms will be opened.

The proposal with the lowest cost (L1) will be considered for award of the contract.

Payment Schedule

Stage 1: 20% On submission of As-Is Report.

Stage 2: 25% Report on concept design and development.

Stage 3: 25% Submission of RFP finalization and construction drawings.

Stage 4: 20% Finalization and complete integration.

Stage 5: 10% Signed off the Project after full fledged operational of the Computer Centre with HPC facility at OLHC.

Format of Price Bid:

Sl. No	Scope of Work	Charges in INR
1	Data Center cum Computer Centre Planning & Designing, detailing of NOC, VC Rooms, Labs etc.	
2	Master Plan of the entire Campus.	
3.	Active Infrastructure for all the departments, faculty housing, Hostels blocks & Service blocks etc.	
4.	Other Charges (mention items as subheading such as) a. b.	
5.	Service Tax	
Total		

Information sheet to be filled by the Bidder

The details filled in these forms must be accompanied by sufficient documentary evidences, in order to verify the authenticity and correctness of the information.

Table-1

1.	Name of Firm	
2.	Address	
3.	Phone & Fax No.	
4.	Email address	
5.	Website address, if any	
6.	Registration number & Year of Registration	
7.	Central Service Tax	
8.	VAT/ Service Tax No.	
9.	PAN No.	
10.	Mandatory requirement	
11.	Income Tax Paid during financial years 2013-14, 2014-15, 2015-16	
12.	Details of the ownership of the Firm (Name of directors etc.)	
13.	Name of the Authorized signatory, who is authorized to quote in tender and enter into rate contract (Power of attorney to be submitted)	
14.	Name of the bankers alongwith branch (as appearing in MICR Cheque) & Account no.	

Date: _____

Place: _____

Signature with Seal