



National Institute of Science Education and Research
Jatni, Odisha **INDIA**

INVITATION FOR EXPRESSION OF INTEREST CUM PRE-QUALIFICATION

E.O.I. Notice No.: NISER/EOI/DATA CENTER/2016-17/02b dt. 28/12/2016.

*Expression of Interest is invited on behalf of the **Director, NISER Bhubaneswar** from the reputed and bonafide OEMs or their appointed Authorized Partners (only one agency per manufacturer) and having vast experience in **Data Center designing and implementation for the Design, Fabrication, Supply, Installation, Testing, Commissioning, Operations and Maintenance of Basic Infrastructure for the establishment of a Data Center.***

The companies, who have designed and implemented Tier 2 or higher Data Center are allowed to download the tender document free of cost directly from NISER website www.niser.ac.in.

Stores & Purchase Officer



EXPRESSION OF INTEREST (EOI)
FOR THE DESIGN, FABRICATION, SUPPLY,
INSTALLATION, TESTING, COMMISSIONING AND VALIDATION OF
SUPPORT INFRASTRUCTURE FOR DATA CENTER

EoI Ref No. NISER/EOI/DATA CENTER/2016-17/02

Dated: 28-12-2016

EXPRESSION OF INTEREST

National Institute of Science Education and Research (NISER) an Autonomous Institute under DAE, Government of India, desires to augment its capability in the domain of Computational Science to establish a new Data Center to house critical High Performance Clusters (HPC), Server Farm, Storage, Network Devices, etc.

Expression of Interest is invited on behalf of the **Director, NISER Bhubaneswar** from the reputed and bonafide OEMs or their appointed Authorized Partners (only one agency per manufacturer) and having vast experience in Data Center designing and implementation for the Design, Fabrication, Supply, Installation, Testing, Commissioning, Operations and Maintenance of Basic Infrastructure for the establishment of a Data Center.

The Pre-qualified firms will be technically evaluated by inviting them to make presentation about their proposed solutions for the work. The techno-commercial bids shall be invited by issuance of the RFP (Request for Proposal) document from the technically qualified bidders. **The companies, who have designed and implemented Tier 2 or higher Data Center are only eligible to participate in this EOI.**

1. INTRODUCTION

National Institute of Science Education and Research (NISER) an Autonomous Institute under DAE, Government of India, desires to augment its capability in the domain of Computational Science to establish a new Data Center to house critical High Performance Clusters (HPC), Server Farm, Storage, Network Devices, etc.

2. PROJECT INFORMATION

NISER is planning to establish a new Data Center which will consume a total power of about 1 MW, to support critical servers, storage, network devices, High Performance Clusters (HPC), etc. in a modular manner.

The Data Center is expected to be built to the best of global standards. Given the fact that the average power density and corresponding cooling loads would be 15 - 35 kW per rack, it is to be an optimal balance between innovative technology deployment and robustness. The HPC is expected to be commissioned in 06 months, and the building shell is already constructed. The Data center is to be housed along with the supporting dedicated technical room.

Location:

Computer Center at: Main Campus of NISER located at Jatni, Odisha

Size of the room:

Data Center Size: 13820mm X 7750mm, low floor room to accommodate raised floor.

UPS Room Size: 6930mm X 7750mm

3. SCOPE OF WORK

This EoI is for developing support infrastructure for the Design, Supply, Build and Commissioning of New Data center infrastructure which should meet TIA 942/ Uptime Institute standards within the time frame that will be agreed upon. The components of the project are HVAC System, Electrical System, Interiors, Building Management system (including fire suppression) and passive network cabling.

The HVAC systems scope of work includes Precision Air conditioning (PAC) – Chilled Water/Gas based, Hot/Cold Aisle Containment/Inline/In Row/rack/RDHx based cooling as applicable. Thermal Storage tank to maintain water temperature during battery back time.

The Electrical systems scope of work includes arranging of supply and installation of all the needed electrical panels for distributing power, cabling, earthing, UPS and Batteries with 30 minutes power backup for full IT load, DG Sets etc..

The Interior scope of work includes False Ceiling, Raised Floor with appropriate load bearing capacity, Partitioning with Fire Resistant materials (Minimum 2 hours fire rating is required), glow signage for Emergency Fire Exits, Data Center & Utility room, The interior walls and ceilings shall be painted with best quality fire retardant paint of approved shades. etc..

The Building Management System (BMS) scope of work includes – Fire Detection system, Fire suppression system (NOVEC), VESDA (Very Early Smoke Detection Apparatus), Rodent Repellent System, Digital Water leak detection system (DWLD), Access Control System, CCTV/IP surveillance, Power quality meter monitoring, AC and DG set monitoring. System should be enough intelligent to send a mail and SMS during critical alarm. The list of critical alarms shall be suggested by the bidder and final selection by NISER.

The Passive network cabling scope of work includes – CAT-7 network cable for all the racks to be installed with proper cable management.

Notice Inviting Applications for Expression of Interest (EoI)

NISER invites EoI Applications from reputed and experienced “Data Center” Contractors for the following work:

Name of Work	DESIGN, FABRICATION, SUPPLY, INSTALLATION, TESTING, COMMISSIONING and VALIDATION OF HVAC, ELECTRICAL, IBMS, FIRE & SAFETY SYSTEMS, PASSIVE NETWORK CABLING AND INTERIORS for SERVER ROOM AND ASSOCIATED SPACES at DATA CENTER (As per the Data Center approved standards (TIA/Uptime) , NISER, BHUBANESWAR
Location	Jatni, Bhubaneswar
Scope of Work	<p>The proposed equipment will be installed at Computer Center, NISER, Bhubaneswar.</p> <p>The work involves Design, Fabrication, Supply, Installation, Testing and Commissioning of equipment's with 1 year warranty and 4 years of further comprehensive AMC on all the installed equipment.</p>
Estimated Duration of Work	Build duration should not exceed 4-5 months from the date of formal PO.
Eligibility Required to Apply for EoI	<ol style="list-style-type: none"> 1. Experience of having successfully completed similar works during the last 5 years ending 31-Mar-2016 preferably in central Central Govt PSU and Autonomous organizations. 2. (i) At least One completed work of similar nature valuing Rs. 4 Crore (OR) (ii) At least Two completed work of similar nature valuing Rs. 3 Crore each (OR) (iii) At least Three completed work of similar nature valuing Rs. 2 Crore each 3. Should have successfully implemented at least two projects with > 1MVA total of Data Center power 4. Should have implemented a data center with fire suppression system(FM200 or NOVEC 1230) 5. Should have average annual financial turnover for the last 5years ending 31-Mar-16 of Rs 50 Crore 6. Should not have incurred any loss during the last 2 years ending 31-Mar-16 7. Should have all valid statutory compliance's such as EPF, ESI, etc. 8. Should have valid Service Tax Registration and Number 9. Should have valid Electrical License. 10. Should have valid Certificate of Incorporation

	<p>11. Should have valid PAN</p> <p>12. Should have valid Sales Tax/ VAT Registration and Number</p> <p>13. Should have presence with all service support in Eastern Part of India.</p>
Disqualifiers	<p>1. Inability to comply to Eligibility Criteria listed above</p> <p>2. Any falsification of data/ claim/ proofs/ documents/ supporting provided in the Application to EoI</p> <p>3. Incomplete Documents</p>
Definitions	<p>CLIENT: shall mean NISER</p> <p>APPLICANT: shall mean a proprietary firm, a firm in partnership, a Limited Company (private or public) or a Corporation.</p> <p>YEAR: shall mean the 'Financial Year'</p> <p>SIMILAR WORK: shall mean Data Center work related to Design, Fabrication, Supply, Installation, Testing and Commissioning of Support infrastructure in Data Centers/ Server Rooms/ Computer Rooms</p>
Method of Application and Signatories	<p>1. If the application is made by a proprietary firm, it shall be signed by the proprietor above his/her full typewritten name and the full name of his/her firm with its current address.</p> <p>2. If the application is made by a firm in partnership, it shall be signed by all the partners of the firm above their full typewritten names and current address or alternatively by a partner holding power of attorney for the firm. In such a case a certified copy of the power of attorney shall accompany the application. A certified copy of the partnership deed and current address of all the partners of the firm shall also accompany the application.</p> <p>3. If the application is made by a limited company or a corporation, it shall be signed by a duly authorized person holding power of attorney for signing the application. In such a case a certified copy of the power of attorney shall accompany the application. Such limited company or corporation may be required to furnish satisfactory evidence of its existence before the EoI application is filed.</p>
Submission Date of Response to EoI	17th January 2017 at 4:00 p.m. at office of "Stores & Purchase Officer", NISER, JATNI Campus
Client	NISER, Bhubaneswar
Contact Persons for Clarifications from NISER	<p>Technical</p> <p>Mr. Saikat Hira SO-E, Computer Centre, NISER, Jatni Email ID: saikat.hira@niser.ac.in</p>

	<p>Mr. A. Anandaraman, SO-D (HPC), Computer Centre NISER, Jatni Email ID: anandaraman@niser.ac.in</p> <p>Commercial Mr. Deepak Srivastava, Stores & Purchase Officer, NISER, JATNI E-mail ID: spo@niser.ac.in (Only email enquires will be replied)</p>
Final Decision Making Authority	NISER reserves the right to accept or reject any application and to annul the EoI process and reject all applications at any time, without thereby incurring any liability to the affected applicants or specifying the grounds for NISER's action.
Disclaimer	<ol style="list-style-type: none"> 1. This EoI is issued solely for information and planning purposes and does not constitute a solicitation. 2. A detailed tender shall be issued to shortlisted applicants meeting the eligibility criteria as per EOI & Technical Presentation. 3. Information disclosed under and in accordance with the EoI will not constitute as an offer, also the acceptance of responses to this EoI cannot be considered as a binding contract. 4. Applicants/Contractors are solely responsible for all expenses associated with responding to this EoI. 5. The information on the EoI or information acquired during discussion is confidential and each Applicant/Contractor is bound by confidentiality and liable to be disqualified if found to be lacking in maintaining confidentiality of the EoI or information provided by NISER. 6. Applicant/Contractor is further liable to and indemnifies NISER for claims or losses that NISER may suffer as result of breach of confidentiality.

The EoI Application shall comprise of the following:

1. Covering Letter (Format A1)
2. Company profile (In Applicant's Format)
The business of the Company along with areas of expertise and experience. A detailed write-up and/or printed brochures and/ or soft copies of relevant documents *should not be more than 5 pages*.
3. Certificate of Incorporation
Incorporation/ registration certificate, along with constitutional documents like Memorandum & Articles of Association/ Partnership deed/registration certificate/ trust deed.
4. Up to date Income Tax Clearance Certificate or Auditor's Certification to that Effect.
5. Financial Information (Format A2)
6. Details of Similar Works Completed in the last 5 years (Format A3)
7. Details of Similar Works under Execution (Format A4)
8. Organization Structure (Format A5- a)
9. Employee Strength (Format A5- b)
10. Local Presence and Geographical Reach (Format A5- c)
11. Certificate of Completed Work from other Customers (Format A6)

12. Proposed Project Execution Methodology (In Applicant's Format)
13. Authorisation by Applicant for the Director, NISER to seek detailed references (in Applicant's format)
14. Proposed High Level Project Plan for Implementation of Work for NISER (In Applicant's Format)

Please note:

1. All information called for in the enclosed forms should be furnished against the respective columns in the forms. If information is furnished in a separate document, reference to the same should be given against respective columns in such case. If any particulars/ query is not applicable in the case of the applicant, it should be stated as not applicable. However the applicants are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the applicant being summarily disqualified. Applications received late will not be entertained.
2. The application should be typewritten/ printed. The applicant's name should appear on each page of the application.
3. All pages of the EoI document duly signed shall be numbered and submitted as a package with signed Covering Letter.
4. References, information and certificates from the respective clients/ customers certifying suitability, technical know-how or capability of the applicant should be signed by an officer not below the rank of Superintending Engineer, CPWD or equivalent.
5. The applicant is advised to attach any additional information, which he/she thinks is necessary in regard to his/her capabilities to establish that the applicant is capable in all respects to successfully complete the envisaged work. He/She is however, advised not to attach superfluous information. No further information will be entertained after EoI document is submitted, unless NISER calls for it.
6. The EoI document in prescribed form duly completed and signed shall be submitted in a sealed cover. The sealed cover super scribed "**DESIGN, FABRICATION, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND VALIDATION OF HVAC, ELECTRICAL, IBMS, FIRE & SAFETY SYSTEMS AND INTERIORS for SERVER ROOM AND ASSOCIATED SPACES at DATA CENTER, NISER, BHUBANESWAR**" shall be received by The Stores and Purchase Officer, NISER, Jatni (Phone: 0674-2494025), or his/her authorized representative **upto 1600 hrs. on 17th January, 2017** Documents submitted in connection with EoI will be treated confidential and will not be returned.
7. Prospective applicants may seek clarification regarding the project and/ or the requirements for pre-qualification, by email ids (spo@niser.ac.in , anandaraman@niser.ac.in) on or before **6th January, 2017** Any clarification given by NISER will be forwarded to all those who have obtained the EoI document directly from the o/o NISER. No request for clarification will be considered after receiving the EoI.
8. Signatory for all documents submitted by the Applicant should be the Authorised Signatory, or authorized Power of Attorney.

Scope of EOI

In general EOI shall consist of the following three stages

Stage-I

- i. All the agencies are requested to visit the site before submission of EOI
- ii. Technical evaluation committee appointed by the competent authority of NISER Bhubaneswar shall shortlist the agencies based on minimum eligibility criteria and terms and conditions specified in the EOI
- iii. NISER Bhubaneswar reserves the right to restrict the number of short listed agencies out to technically qualified agencies on merit basis/EOI applications received. More eligibility shall not entail an agency to be considered for short listing an NISER may restrict the number of agencies to the extent it is necessary.
- iv. Shortlisted agencies will be intimated at stage 2 of EOI

Stage-II

- i. Shortlisted agencies shall be called for making presentation at NISER Bhubaneswar on the date and time intimated at a later date. The decision regarding qualifying the agencies based on their presentation will be reviewed by the committee constituted for the purpose. The decision of the committee in this regard shall be final and binding in all respects and will be intimated to all agencies.
- ii. Tender document complete in all respects shall be issued to only short listed agencies for submitting technical and financial bids.
- iii. Short listed agencies will be called for technical clarifications if any, one week after the issue of tender document.

Stage-III

- (i) Technical bid will be opened first and financial bid of only technically qualified bidders will be opened on a later date. Time limit for completion of work shall be four to six months from the date of issue of order.
- (ii) Technically accepted, financially lowest offer and substantially responsive to the Bidding Document shall be considered for award of work.
- (iii) NISER Bhubaneswar reserves the right to split the purchase order depending upon the Institute's requirements.

Award Criteria

NISER reserves the right to:

- a) Amend the scope and value of contract to the bidder.
- b) Reject any or all the bids without assigning any reason.

For any of the above actions, NISER shall neither be liable for any damages, nor be under any obligation to inform the applicants of the grounds for the same.

Effort on the part of the bidder or his/her agent to exercise influence or to pressurize NISER for his/her bid shall result in rejection of such bid. Canvassing of any kind is prohibited.

XXXXXXXXXXXXXXXX

**FORMAT A1
COVERING LETTER
(on APPLICANT'S LETTERHEAD)**

From:

(Full Address of the Applicant)

To

The Director, NISER
NISER Campus, Jatni-752050, Odisha

SUB: Submission of EoI Application for the **DESIGN, FABRICATION, SUPPLY, INSTALLATION, TESTING, COMMISSIONING and VALIDATION OF HVAC, ELECTRICAL, IBMS, FIRE & SAFETY SYSTEMS AND INTERIORS for SERVER ROOM AND ASSOCIATED SPACES at DATA CENTER, NISER, BHUBANESWAR**

Sir,

Having examined the details given in *Invitation for EoI* published in the newspapers and *EoI* document for the above work, we hereby submit the EoI document.

1. We hereby certify that all the statements made and information supplied in the enclosed Formats A2 to A6 and accompanying statements are true and correct.
2. We have furnished all information and details necessary for EoI and have no further pertinent information to supply.
3. We authorize NISER to approach individuals, employers, firms and corporation and to visit the works completed by us in the past or are in progress at present, to verify our competence and general reputation.
4. We submit the following certificates in support our suitability, technical know-how and capability for having successfully completed the following works :

S.No.	Name of Similar Completed Work	Value of Work	Certificate From Customer
1.			
2.			
3.			

Enclosures:

Date of submission :

Signature of Applicant

**FORMAT A2
FINANCIAL DETAILS**

2015-2016	2014-2015	2013-2014	2012-2013	2011-2012
Annual Turnover for Last 5 Years (in Crore)				
Profit/ Loss for Last 5 Years (in Crore)				
Annual Turnover from Similar Works for Last 5 Years (in Crore)				

Enclosures:

Audited Annual Financial Report 2015-2016 certified by Chartered Accountant
Audited Annual Financial Report 2014-2015 certified by Chartered Accountant
Audited Annual Financial Report 2013-2014 certified by Chartered Accountant
Audited Annual Financial Report 2012-2013 certified by Chartered Accountant
Audited Annual Financial Report 2011-2012 certified by Chartered Accountant

Date of submission:

Signature of Applicant

FORMAT A3

DETAILS OF SIMILAR WORKS COMPLETED IN THE LAST 5 YEARS

(Use similar format for each project separately, Limit each work description to one page only.)

Name of Work	
Name of Customer	
Detailed Description of the Work	
<ol style="list-style-type: none">1. Total Power used in Data Center (in MVA)2. Total IT Load (kW)3. Total Non-IT Load (kW)4. Capacity of Chillers/CRAC Units (kW)5. Total No. of IT Racks6. Maximum power density per rack (kW)7. Kind of Fire Suppression System Installed (FM200/NOVEC etc.)8. Cooling Technique used (PAC /CLC/RDHx etc.)	
Approximate Value of Contract (In Crore)	
Location of the Work	
Duration of the job (months)	
Originally Planned Date of Completion	
Actual Date of Completion	
Name of Associate Contractors and functions performed (if any)	
Name of Senior professional staff of your firm involved and functions performed	
Customer Contact Person, Designation, Email and Phone Number	
Any Litigation/ Arbitration and Status Thereof	
In case of delay, the principal reason for the same	

Date of submission:

Signature of Applicant

FORMAT A4
DETAILS OF SIMILAR WORKS UNDER EXECUTION(if any)
Details of Similar Works (Use similar format for each project separately)

Name of Work	
Name of Customer	
Detailed Description of the Work	
Total Power used in Data Center (in MVA) 1. Total IT Load (kW) 2. Total Non-IT Load (kW) 3. Capacity of Chillers/CRAC Units (kW) 4. Total No. of IT Racks 5. Maximum power density per rack (kW) 6. Kind of Fire Suppression System Installed (FM200/NOVEC etc..)	
Approximate Value of Contract (In Crore)	
Location of the Work	
Duration of the job (months)	
Date of Award of Contract	
Date of Commencement of Work	
Originally Planned Date of Completion	
Expected Date of Completion	
Name of Associate Contractors and functions performed (if any)	
Name of Senior professional staff of your firm involved and functions performed	
Customer Contact Person, Designation, Email and Phone Number	
Any Litigation/ Arbitration and Status Thereof	

Date of submission:

Signature of Applicant

FORMAT A5- a
ORGANISATION STRUCTURE

Name and address of Applicant	
Telephone No. / Fax No. / email address	
Legal status (Attach copies of original document defining the legal status). The applicant is : a)A proprietary Firm b)A Firm in partnership c) A limited company or corporation	
PAN Number (Attach attested copy)	
Service Tax Number (Attach attested copy)	
Sales Tax Number (Attach attested copy)	
ESI Registration (Attach attested copy)	
EPF Registration (Attach attested copy)	
Electrical License (Attach attested copy)	
Current Valid Insurance Covers (Attach attested copies)	
Name and title of Directors and Officers with designation to be concerned with this work with designation of individuals authorized to act for the organization	
Was your company ever required to suspend construction for a period of more than six months continuously after you commenced the construction? If so, give the name of the project and reasons thereof	
Have you or your constituent partners(s) ever left the work awarded to you incomplete? (If so, give name of the project and reasons for not completing the work)	
Have you or your constituent partners(s) been debarred / black listed for tendering in any organization at any time? If so, give details	
Relevant Certifications (Attach attested copies)	
Any other information considered necessary but not included above	

Date of submission :

Signature of Applicant

FORMAT A5- b
EMPLOYEE STRENGTH

Description	Number of People	Specific Qualifications related to Data Center projects
Executive Directors/ equivalent		
General Management		
Administrative		
<p style="text-align: center;">Technical</p> <ol style="list-style-type: none"> 1. Electrical 2. Mechanical 3. BMS (Building Management System) 4. Civil 		
Contracts Management		
Semi Skilled/Skilled Personnel		
Site Supervisory Staff		
Others		
TOTAL EMPLOYEES		

Date of submission :

Signature of Applicant

FORMAT A5- c
LOCAL PRESENCE AND GEOGRAPHICAL REACH

Office Location	Number of People
In Bhubaneswar	
Location Nearest to Bhubaneswar	
Other Locations in India to be listed below	
TOTAL EMPLOYEES	

Date of submission :

Signature of Applicant

FORMAT A6

CERTIFICATE OF COMPLETED WORK FROM PAST CUSTOMERS

(Furnish this information for each individual work from the CUSTOMERS referred in Forms A3 and A4 for whom the work was (or, is being) executed)

1. Name of work / Project and Location
2. Agreement/Purchase Order Number
3. Estimated Cost
4. Tendered Cost
5. Date of Start
6. Date of Completion
 - a) Stipulated date of completion
 - b) Actual date of completion
7. Amount of compensation levied for delayed completion if any.
8. Performance report
 - Quality of Work Excellent/ Very good/ Good/ Fair
 - Resourcefulness Excellent/ Very good/ Good/ Fair
 - Responsiveness Excellent/ Very good/ Good/ Fair
 - Accessibility to Management when needed Excellent/ Very good/ Good/ Fair
9. Name of Institute/ Chief Project Manager or Equivalent
10. Contact Details
11. Would you award work again to this Contractor Yes/ No

Signature:

Date:

Place:

(Seal of the Customer)