

## CORRIGENDUM

DT: 07.11.2016

Tender Ref.: NC-000307-16-17-PTN-51

The tender date for "High Performance Computing Cluster" is further extended as per the following.

1. Last Date & Time of Submission: 11.11.2016(Up to 10:00 A.M.)
2. Date & Time of Opening: 11.11.2016(At 02:30 P.M.)

All other Terms & Conditions of our Tender No. NC-000307-16-17-PTN-51 will remain same.



Stores & Purchase Officer



**राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान, भुवनेश्वर**  
(परमाणु उर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान)  
**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, BHUBANESWAR**  
(AN AUTONOMOUS INSTITUTE UNDER DEPT. OF ATOMIC ENERGY, GOVT. OF INDIA)

**Notice Inviting Tender No. - NC-000307-16-17-PTN-51**

**(2 Part Tender)**

**HIGH PERFORMANCE COMPUTING CLUSTER**

**Cost of Tender is 1500.00 (Non Refundable)**

## Paper Notice



**NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH**

**JATNI CAMPUS, P.O. - JATNI**

**KHURDA – 752050, ODISHA, INDIA**

**Public Tender Notice No. NC-000307-16-17-PTN-51**

**(2 Part Tender)**

Sealed Tenders are invited on behalf of the Director, National Institute of Science Education and Research, Jatni from the manufacturers(Indian or Foreign) and their authorised reseller/Indian agent only for supply & installation of the following items:-

<b>Sl. No.</b>	<b>Name of the Items</b>	<b>Tender No.</b>	<b>Name of Department</b>	<b>Indent No.</b>	<b>Qty.</b>	<b>EMD in INR</b>
01	<b>High Performance Computing Cluster</b>	<b>NC-000307-16-17-PTN-51</b>	School of Chemical Science	<b>NC-000307-12-R&amp;D-NIS-5.03-01-16-17</b>	01 No.	500000.00

For all other details please visit the NISER web-site address: [www.niser.ac.in](http://www.niser.ac.in) directly.

Stores & Purchase Officer



**NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH**

**JATNI CAMPUS, P.O. – BHIMPUR-PADANPUR, VIA-JATNI**

**KHURDA – 752050, ODISHA, INDIA**

**Tender Notice No. NC-000307-16-17-PTN-51**

Sealed Tenders are invited on behalf of the Director, National Institute of Science Education and Research, Jatni from the manufacturers(Indian or Foreign) and their authorised reseller/Indian agent only for supply & installation of the following items:-

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01	High Performance Computing Cluster	NC-000307-16-17-PTN-51	School of Chemical Science	NC-000307-12-R&D-NIS-5.03-01-16-17	01 No.	500000.00

**NB: PARTIES REGISTERED WITH SSI/DGS&D/DAE AND FOREIGN PARTIES QUOTING DIRECTLY ARE EXEMPTED FROM PAYING EMD & TENDER FEE.**

Interested parties may collect the Tender Documents from the Dy. Controller of Accounts, NISER, on payment of Rs.1500/-(Non Refundable).Tender document can be downloaded from NISER website upto 4<sup>th</sup> Nov.2016. The Tender, complete in all respects should be submitted within 10.00 a.m. on or before 11<sup>th</sup> Nov.2016 along with prescribed Earnest Money Deposit.

Bidders who submit the form downloaded from the web site must attach Demand Draft of requisite amount Rs.1500/-(cost of tender document) prepared in favour of the FINANCE OFFICER, NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH with their bids.

NISER reserves the right to accept or reject any or all the Tenders without assigning any reason.

**Stores & Purchase Officer**

**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH**  
**NIT OPEN DOCUMENT (2 PART BID)**  
**SUPPLY & INSTALLATION OF**  
**HIGH PERFORMANCE COMPUTING CLUSTER**

National Institute of Science Education & Research (NISER), Jatni is an Autonomous Institute under Dept of Atomic Energy. NISER would like to procure the following equipment. The Technical Specifications Schedule of Requirements and Allied Technical details are given in Part-1 of tender document.

• **Item: HIGH PERFORMANCE COMPUTING CLUSTER**

• **Tender Enquiry No: NC-000307-16-17-PTN-51**

• **Last date of sale of Tender document : 4<sup>th</sup>, Nov, 2016 Upto 05.30PM**

• **Last date of submission of bid- 11<sup>th</sup> Nov,2016 Up to 10.00 A.M**

• **Opening of Technical Bids: 11<sup>th</sup> Nov, 2016, AT 02.30 PM**

• **Date and Time of Pre-bid meeting (Technical discussion only )- 17<sup>th</sup> Oct, 2016 ,At-12.30 P.M in conference hall of school of Chemical sciences .**

Sealed tenders are invited for supply and installation of **High Performance Computing Cluster** in the National Institute of Science Education & Research, Jatni. The tender document consists of the following two parts.

Part-1: "TERMS & CONDITIONS" & "TECHNICAL BID" of the tender.

Part-2: "FINANCIAL BID" of the tender.

The sealed envelope containing "Terms & Conditions", "Technical Bid" and "Financial Bid" on prescribed tender document should reach to the Stores & Purchase Officer, National Institute of Science Education & Research, Jatni on or before **11<sup>th</sup> Nov,2016** upto **10:00 a.m.** otherwise the tender will not be accepted.

The sealed envelope of the bidders containing Part-1 "Terms & Conditions" and "Technical bid" shall be opened on **11<sup>th</sup> Nov, 2016** at **02:30 p.m** One representative of each vendor may participate at the time of opening the bids (The representative must have the valid authorisation from their respective company for attending the tender opening meeting). The Part -2 "Financial Bid" of only those parties who qualify in Part -1 will be opened on a later date. The date of opening will be informed to each qualified party separately.

**(Deepak Srivastava)**

**Stores & Purchase Officer**

The Institute can provide following documents.

1. Custom Duty / Excise duty exemption certificate. (As Custom duty exemption is given to NISER hence exempted Custom Duty @5.15% will be paid if applicable)

2. Road permit for entering in Orissa, Party has to pay Entry Tax

The Institute can't provide following documents.

1. Form D for Central Sales tax/IIID for Orissa commercial Taxes.

**COST OF TENDER IS RS. 1500/- (NON REFUNDABLE).**

**This is payable in cash or Demand Draft of a scheduled Bank in favour of**

**Finance Officer, National Institute of Science Education and Research, Jatni.**



## PART - 1

### TERMS & CONDITIONS

#### FOR SUPPLY AND INSTALLATION OF

#### HIGH PERFORMANCE COMPUTING CLUSTER

#### FOR

#### NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI

1. Director, National Institute of Science Education & Research, Jatni (NISER) invites sealed tenders for **HIGH PERFORMANCE COMPUTING CLUSTER** from the Manufacturer and their authorised reseller only having following credentials.

#### Qualifying Criteria for technical Evaluation.

The bidders who fulfill the following Technical Qualifying Criteria will be considered for commercial evaluation.

1. The bidder should be either the system-integrator or the OEM. The system- integrator must have installed and integrated at least three HPC facilities each of theoretical peak performance more than 10 TFLOPS [via CPU-only nodes alone] in research institutes funded by the Govt. of India within the last three years. In addition, the OEM must have supplied the major hardware component to at least two among the top 500 HPC facilities listed in <http://www.top500.org> in the last three years.
2. The system-integrator and/or the OEM should have at least one entry in the Top Supercomputers-India list (<http://topsupercomputers-india.iisc.ernet.in>) maintained by SERC, IISc, Bangalore between December 2013 (eleventh list) up to June 2016 (sixteenth list).
3. The system-integrator and/or the OEM should have implemented at least one HPC cluster with Parallel File System in India within the last three years. Supply testimonial from the customer attesting the same.
4. During the bidding process Standard LINPACK benchmark for the quoted system to demonstrate the degree of parallel scaling.
5. Please provide output of the above benchmark on DVD/CD/**Pen-drive** along with the bid. Do not provide the print out of the outputs.
6. Regarding performance of storage, bidders must demonstrate that 1 TB of data is written with a minimum speed of 5GB/s **with IOR Benchmark**.

#### **List of Documents to be present in Technical Envelope:**

1. Bill of materials without price.

2. All Benchmark results (DVD/CD/**Pen-drive**)
3. Technical specification sheet of Equipments.
4. Proof for installation of HPC as per Technical qualification criteria both bidder and OEM.
5. Proof for installation of HPC with parallel file system.

**List of Documents to be present in commercial Envelope.**

1. Bill of materials with price

**NOTE: Parties who qualify in qualifying criteria will only be considered for technical evaluation.**

1. The Bidders are requested to give detailed tender in the prescribed forms in two Bids  
i.e. Part - I Technical Bid.  
Part - II Commercial Bid.
2. **Contact for information:** (Only E-mail enquiries will be entertained)

**For Technical Information of HIGH PERFORMANCE COMPUTING CLUSTER**

Dr. Lourderaj Upakarasamy  
School of Chemical Sciences, NISER.  
E-Mail - [u.lourderaj@niser.ac.in](mailto:u.lourderaj@niser.ac.in)

Mr. A. Anandaraman  
SOD(HPC), Computer Center, NISER  
E-Mail - [anandaraman@niser.ac.in](mailto:anandaraman@niser.ac.in)

**For Information regarding Commercial & all other Terms & Conditions:**

Mr. Deepak Srivastava  
Stores & Purchase Officer  
National Institute of Science Education & Research, Jatni  
E-Mail-spo@niser.ac.in

**4. Supply means:**

“Supply, Installation, Commissioning and satisfactory demonstration of the whole equipments”.

If any charges extra are payable for Installation and Commissioning, the same should be specified in the commercial offer.

**5. Submission of Bids:**

- (a) Place: Office of Stores & Purchase Officer, NISER, Jatni.
- (b) Time and Date of Submission: up to **10.00 AM on 11<sup>th</sup> Nov, 2016**
- (c) Time and Date of opening Technical Bid: At **02.30 P.M on 11<sup>th</sup> Nov, 2016**

NISER will not be responsible, for submission / delivery of quotation at wrong places other than the Office of Stores & Purchase Officer, NISER, Jatni.

## **6. Two Bid System: -**

The two bid system should be followed for this tender. In this system the bidder must submit his offer in two separate sealed envelopes. Both the technical bid and commercial bid envelopes should be securely sealed and stamped separately for each quoted equipment and clearly marked as "Envelope No.1 – Technical Bid" and "Envelope No.2 – Commercial Bid" respectively. Both the sealed envelopes should be placed in a third larger envelope. The main envelope which will contain both the bids should be super scribed with our tender enquiry No **NC-000307-16-17-PTN-51** due on **11<sup>th</sup> Nov ,2016** with name of the equipment & department and to be submitted to the address given below so as to reach on or before **10.00 AM** on **11<sup>th</sup> Nov, 2016**. **Separate envelope should be used for each item super scribing name of the indent.**

Stores & Purchase Officer,  
National Institute of Science Education & Research,  
Jatni Campus, PO-Bhimpur-Padanpur, Via-Jatni, Khurda - 752050

### **The envelopes must be super-scribed with the following information:**

- Tender Reference Number
- Name of the Equipment
- Name of the Department
- Due Date
- Name of the Vendor
- Envelope No. 1: Shall contain "Acceptance of Terms & Conditions", "Technical Bid" and Earnest Money Deposit (EMD)  
The technical offer should not contain any price information.
- Envelop No.2: Shall contain financial bid only.

The Technical Bid must be submitted in an organized and structured manner. No brochures/leaflets etc. should be submitted in loose form. Please indicate page nos. on your quotation eg. If the quotation is containing 25 Pages, please indicate as 1/25, 2/25, 3/25 -----25/25.

**Printed conditions of the vendor submitted with the tender will not be binding on National Institute of Science Education & Research, Jatni.**

### **Important Instruction**

The parties are requested to make separate bid (technical & financial both) for each quoted equipment along with the requisite amount of EMD.

### **The Technical Offer should comprise of the following:**

- a) Tenders, which are submitted without following the Two-Bid Offer System, will summarily be rejected.
- b) The technical offer should be complete to indicate that all products and services asked for are quoted. Each page of the bid and cutting/corrections shall be duly signed and stamped by the bidder. Unsigned Tenders will also be rejected. Failure to comply with this requirement may result in the bid being rejected.
- c) The purpose of certain specific conditions is to get or procure best product/service etc. for NISER. The opinion of Technical Committee shall be the guiding factor for technical short listing.
- d) The earnest money deposit as indicated against the item should be enclosed along with the terms & conditions & technical bid duly signed and stamped in the form of Account Payee Bank Draft payable on any branch of Nationalised/Schedule Bank at Bhubaneswar/ Jatni in favour of "Finance Officer, National Institute of Science Education & Research, Jatni, in a separate sealed envelope. All tenders submitted without requisite amount of earnest money shall be rejected and their technical and financial bids shall not be opened. No interest is payable on EMD. The EMD will be returned to the bidders(s)/Agents whose offer is not accepted by NISER within one month from the date of the placing of the final order(s) on the selected bidder(s). In case of the bidder(s) whose offer is accepted the EMD will be returned on submission of Performance Bank Guarantee (if applicable). However, if the return of EMD is delayed for any reason, no interest /penalty shall be payable to the bidders.



**EMD EXEMPTION:**

PARTIES REGISTERED WITH SSI/DGS&D/DAE AND FOREIGN PARTIES QUOTING DIRECTLY ARE EXEMPTED FROM PAYING EMD. FOREIGN PARTIES QUOTING DIRECTLY UNDER ORIGINAL SEAL AND SIGNATURE (NOT SCANNED) WILL GET THE EXEMPTION.

**The EMD shall be forfeited:**

If the bidder withdraws the bid during the period of bid validity specified in the tender. In case a successful bidder fails to furnish the Performance Bank Guarantee (if applicable).

e) Undertaking that the successful bidder agrees to give a Performance Bank Guaranty of 10% of the purchase order value in favour of "Director, National Institute of Science Education & Research, Jatni valid till warranty period.

**Performance Bank Guarantee:**

Within ten (10) days of the award of contract, the vendor shall furnish a Performance Bank Guarantee amounting to 10% of the purchase order value in the form of Bank Guarantee favouring the Director, National Institute of Science Education & Research, Jatni valid till completion of warranty period.

f) Duly filled in Technical Bid with proper seal and signature of authorized person on each page of the bid should be submitted and the same should accompany with complete specifications and drawings, Manufacturer's name, address and relevant Technical Literature/Brochures with warranty Terms and EMD.

g) If the bid is for branded makes, authorization letter from principals clearly indicating that the vendor is the competent authority to sell and provide services towards the items mentioned in the scope of supply given in this tender document.

h) Copy of LST/CST/WCT No. PAN No. and TIN No. allotted by the concerned authorities.

i) List of deliverables / Bill of materials and services.

j) Compliance sheet with any deviation with reference to the terms and specifications.

k) Indicate the names of the Indian reputed Organizations where you have supplied similar equipment and may attach the satisfactory performance report of the equipment from user Organization.

l) The item should be supplied with manuals and the manuals including technical drawings should be complete in all respects to operate the system without any problem.

m) Bid documents should be submitted as per the above sequence with Index page and page numbers (including technical literature). Each page of the bid should be signed & stamped in original. Unsigned bids will not be considered for evaluation.

**• Envelope 2: "Commercial Bid" shall contain:**

- a) Price schedule complete in all respects with proper seal and signature of authorized person. **Tender with any condition including conditional rebate shall be rejected forthwith.**
- b) Cost of all the items should be mentioned clearly and individually in the Commercial Offer (Part-II) only.
- c) **The Bidders are requested to quote for Educational/Institutional Price for Machine/ Equipment and, since we are eligible for the same.**
- d) **Printed conditions of the vendor submitted with the tender will not be binding on NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH.**

**7. Date of opening the Technical Bids.**

Technical Bids will be opened on – **11<sup>th</sup> Nov, 2016 at 02.30 P.M** at office of the Stores & Purchase Officer, National Institute of Science Education & Research, Jatni.

The Technical bids will be opened in the presence of the bidders on the specified time and date. Bidders/Agents who have responded to the tender only will be allowed to be present.

The technical bids will be evaluated to shortlist the eligible bidders. The commercial bids of only the short listed bidders shall be considered for further processing. Bidders whose technical offer is found

acceptable and meeting the eligibility requirements as specified in this tender will be informed about the date and time of the opening of the commercial bid.

- Note:** (1) Please do not insert 'Commercial Bid' (prices quoted) in the technical bid envelope. If the price quoted is submitted with technical bid the tender will be rejected.  
(2) No camera mobiles / mobiles are allowed during tender opening.

## 8. Opening of Commercial Bids

NISER will open commercial bids of only the short listed bidders, in the presence of the bidders or their authorized representatives who choose to attend the commercial bid opening. The Date and Time of opening the Commercial Bid will be intimated only to pre-qualified and technically acceptable Bidders for the item at a later date.

The representatives of short listed firms only will be allowed for commercial bid opening.

ONLY TECHNICALLY accepted competitive bids will be considered for placing Purchase Order. The commercial offers of the vendors whose technical offers are found to be technically deficient or do not meet the qualification criteria as specified in this tender will be returned to them without opening.

The bid can be submitted in person or through post/courier (NISER will not be responsible for delayed / late quotations submitted / sent by Post / Courier etc. resulting in disqualification/ rejection of any bid) so as to reach NISER on or before the due date and time. Fax / E-mail / Telegraphic / Telex tenders will not be considered unless it is asked for. The bidders 'authorized representative can attend the bid opening.

9. **The Director NISER reserves the right to accept the offer in full or in parts or reject summarily or partly.**

## 10. Delivery Period / Timeliness

The delivery of the product must be within 8 weeks. Installation to be done within 12 weeks, after PO release. The time is the essence of the contract. It is mandatory for the bidders who respond to this bid to meet these expectations, as they are tightly linked to NISER's plans of completing the project within the time frame.

## 11. Locations for the Supply / Services

The Laboratory Equipments covered by this document is required to be supplied and installed at School of Chemical Sciences of NISER, Jatni.

## 12. Order Placement and Release of Payment

The Purchase Order and payment shall be processed by -

**Stores & Purchase Officer  
National Institute of Science Education & Research,  
Jatni Campus, P.O. - Bhimpur-Padanpur, Via-Jatni,  
Khurda - 752050, Odisha, INDIA**

Payment for the items to be supplied by the vendor against the purchase order shall be made by National Institute of Science Education & Research as follows:-

80% payment will be made after 100% delivery of the material on submission of original invoice and original delivery challans duly signed and stamped by the authorised representative of NISER along with performance Bank Guarantee.

Balance 20% payment will be released on submission of installation and warranty certificate duly signed and stamped by the authorized representative of the user department.

In case of imports 100% payment will be made through Letter of Credit. 80% will be paid after submission of original shipping documents & balance 20% will be released after satisfactory installation and commissioning along with submission of performance Bank Guarantee.

**Agency Commission: Agency Commission to be paid to India Agent should be specified separately and same will be paid in INR.**

**The tenderers who are not agreeing to above payment terms are requested not to submit their tender otherwise their EMD will be forfeited.**

**13. NISER** will not provide any accommodation/transportation for the engineers/ representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the Principal Supplier/Indian Agent to make their own arrangements.

**14. The successful bidder**, on award of contract / order, must send the contract / order acceptance in writing, within 7 days of award of contract / order failing which the EMD will be forfeited.

**15. Period of validity of bids**

Bids shall be valid for a period of 90 days from the date of opening the Technical bid.

NISER may ask for the bidder's consent to extend the period of validity. Such request and the response shall be made in writing only. The bidder is free not to accept such request without forfeiting the EMD. A bidder agreeing to the request for extension will not be permitted to modify his bid.

Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

**16. AWARD OF CONTRACT**

NISER shall award the contract to the eligible bidder whose bid has been determined as the lowest evaluated commercial bid. If more than one bidder happens to quote the same lowest price, NISER reserves the right to award the contract to more than one bidder or any bidder.

**Purchaser's Right to vary Quantities at the time of Award:** NISER reserves the right to Reduce (or) Increase the number of compute nodes alone on pro-rata basis up to a band of +/- 15%. But the price bid comparison will be done based on complete HPC system with 52 compute nodes. Lowest bidder will be determined based on the rates quoted for the complete HPC system with 52 compute nodes only.

**17. Corrupt or Fraudulent Practices**

NISER requires that the bidders who wish to bid for this project have highest standards of ethics. NISER will reject a bid if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract. NISER may declare a vendor ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time determines that the vendor has engaged in corrupt and fraudulent practices during the execution of contract.

**18. Interpretation of the clauses in the Tender Document / Contract Document**

In case of any ambiguity / dispute in the interpretation of any of the clauses in this Tender Document, Director, NISER's interpretation of the clauses shall be final and binding on all parties.

**19. Price**

The price quoted shall be considered firm and no price escalation will be permitted at any time. The quotation should be in Indian Rupees or any known foreign currency. Packing, forwarding, freight,

insurance, **Agency commission** and commissioning charges, if any extra may be quoted separately in Commercial Bid.

In case of INR bids the price criteria should be on F.O.R., NISER, Jatni. Govt. Levies like central excise duty, sales tax, octroi, WCT etc., if any, shall be paid at actual rates applicable on the date of delivery. Rates should be quoted accordingly giving the basic price, Central Excise Duty, VAT/ Central Sales Tax etc., if any. Please note that NISER is exempted from payment of Excise duty vide Govt. Notification No.10/97-Central Excise dated 1st March, 1997. Please provide TIN no. of the firm along with the CST/WCT No. allotted by the concerned authorities in your quotation.

In case of Foreign Currency bid: - Price criteria should be FOB nearest airport detail break up of Price, FCA cost, **Agency Commission**, Insurance, Freight up to Kolkata Airport is required.

## **20. Pre-installation:**

Pre-installation facilities required for installation may please be intimated in the technical bid. Subsequently, before the consignment lands in NISER, Jatni the bidder shall confirm that the pre-installation requirements are sufficient for installation of the equipments. In other words the bidder should continuously monitor the pre-installation requirements and see that everything is ready before the consignment is taken to the site for installation.

## **21. Installation, Warranty & Support**

Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.

The items covered by the schedule of requirement shall carry minimum **five years** comprehensive warranty from the date of acceptance of the equipments by NISER. Warranty shall include free maintenance of the whole equipment supplied including free replacement of parts. The defects, if any, shall be attended to on immediate basis but in no case any defect should prolong for more than **48 hours**. The comprehensive warranty includes onsite warranty with parts.

The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. This includes cost, insurance, freight, custom duty, octroi, local taxes if any should be borne by the beneficiary or his agent. A clear confirmation should be given for this item.

The bidder shall assure the supply of spare parts after warranty is over for maintenance of the equipment supplied if and when required for a period of 10 years from the date of supply of equipment on payment on approved price list basis.

The equipment must be supported by a Service Centre manned by the principal vendor's technical support engineers. The support through this Centre must be available 24 hours in a day, seven days a week and 365 days a year. Also it should be possible to contract the Principal's vendor support Centre on a toll free number/web/mail.

The vendor will have to arrange for all the testing equipment & tools required for installation, testing & maintenance etc.

## **22. Indemnity**

The vendor shall indemnify, protect and save NISER against all claims, losses, costs, damages, expenses, action suits and other proceeding, resulting from infringement of any law pertaining to patent, trademarks, copyrights etc. or such other statutory infringements in respect of all the equipment's supplied by him.

The successful will be fully responsible for payment of wages and other dues as prescribed and compliance of various Labour Laws.

The successful tender should give an undertaking that the staff deployed at the centre in terms of this contract at all time will be employees of the agency exclusively and they shall not be entitled to any claim of employment or permanency of job with NISER.

NISER reserves the right to forfeit whole or part of the security money towards any damage/lose caused due to the negligence on the part of the agency engaged.

### **23. Insurance**

The equipment's to be supplied will be insured by the vendor against all risks of loss or damage from the date of shipment till such time it is delivered at NISER site in case of Rupee/Foreign currency transaction.

### **24. Penalty for delayed Services / LD**

As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to. Otherwise the bidder will forfeit EMD/SD and also LD clause will be applicable /enforced.

If the supplier fails to Supply, Install and Commission the equipment as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of 1% of order value per every week of delay subject to a maximum of 10% beyond the due date. Such money will be deducted from any amount due or which may become due to the supplier.

NISER reserves the right to cancel the order in case the delay is more than 30 days Penalties, if any, will be deducted from the EMD.

### **25. Jurisdiction**

If a dispute arises out of or in connection with the contract, or in respect of any defined legal relationship associated therewith or derived therefrom, the parties agree to submit that dispute to arbitration under the ICADR Arbitration Rules, 1996.

The authority to appoint the arbitrator(S) shall be the International Centre for alternative dispute resolution.

The International Centre for Alternative Dispute Resolution will provide administrative services in accordance with the ICADR arbitration Rules, 1996.

**Stores & Purchase Officer  
NISER, Jatni**

**DECLARATION BY THE VENDOR**

It is hereby declared that I/We the undersigned, have read and examined all the terms and conditions etc. of the tender document for which I/We have signed and submitted the tender under proper lawful Power of Attorney. It is also certified that all the terms and conditions of the tender document are fully acceptable to me/us and I/We will abide by the conditions from serial no. 1 to 25 and we have not given any printed conditions beyond the scope of this tender. This is also certified that I/We/our principal manufacturing firm have no objection in signing the purchase contract if the opportunity for the supply of the items against this tender is given to me/us.

Date:

Signature:

Address:

Name:

Designation:

On behalf of:

(Company Seal)



**PART - 1**  
**FOR SUPPLY AND INSTALLATION OF**  
**HIGH PERFORMANCE COMPUTING CLUSTER**  
**FOR**  
**NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI**  
**General Information**

1.	Name of the Company	
2.	Full address of company along-with Telephone no. Fax no. E-mail address :	
3.	Local address of company for communication, if any	
4.	Are you a manufacturer or dealer/reseller	
5.(a)	Annual turn over in last 3 financial years in Rs. Crores.  (i) Year 2013-2014 (ii) Year 2014-2015 (iii) Year 2015-2016	
5.(b)	Supply & Installation of HPC equivalent to our tendered of last 3 financial years in State Government or Govt. of India Department(s) /Reputed Organisation(s) (in Nos. and Value)  (Please attach list of clients)  (i) Year 2013-2014 (ii) Year 2014-2015 (iii) Year 2015-2016	
5.(c)	Trade Tax / Sales Tax Registration no. with Place	
5.(d)	Income Tax Registration no. with place	



**SUPPLY AND INSTALLATION  
OF  
HIGH PERFORMANCE COMPUTING CLUSTER  
FOR  
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH, JATNI  
TECHNICAL SPECIFICATION**

<b>S. No.</b>	<b>Item Specification</b>	<b>Offered specification with Make &amp; Model No. please specify any deviation if any. Please attach separate sheet if required</b>
(1)	(2)	(3)
<b>01</b>	<b>HIGH PERFORMANCE COMPUTING CLUSTER ( NC-000307-16-17-PTN-51)</b>	
	Please find the detailed specification of "HIGH PERFORMANCE COMPUTING CLUSTER"  attached in Annexure-I	

**Note: - Parties must mention make & model no. of the equipment offered by them, with detailed specification (on separate sheet). Otherwise their tender will not be accepted.**



## SPECIFICATION HIGH PERFORMANCE COMPUTING CLUSTER

### Details of Rack

All the nodes shall be mounted in 42U racks and Server Racks should be certified by Server OEM. Both the front and rear door should have a handle with locking options. Cable entry should be entered via the roof plate and via the gland plate without affecting the climatic conditions inside the rack. A proven frame design, heavy-gauge mounting rails, and heavy-duty casters provide for more than 1200 kg static and 1000 kg dynamic load ratings. All the hardware must be mounted in these racks and must be working as a cluster. Number of **Monitored IPDU (Intelligent IPDU)** with appropriate Amperage required for your HPC Equipment's should be built into the rack specified. Considerable amount of C13 and C19 Sockets with at least 3 meters length power cord with industrial socket and correct rating MCB with Indicator switch need to be provided. Appropriate number of rack with rail kit and all required accessories allowing sufficient air passage for cooling are needed.

IPMI/IMM Basic License should come for all servers. Baseboard Management Controller with IPMI 2.0 support, hardware health monitor, remote power on/off/reset, KVM console access and dedicated Ethernet port.

### **PART - A**

#### **Master/Login/Resource Management Node (Quantity: Minimum Two)**

<b>Components</b>	<b>Specifications</b>
Processor	Intel Xeon E5-2697A v4, 2.6 GHz, 40MB Cache
Sockets per node	Two
Memory	8 x 16 GB ECC RAM, DDR4 2400MHz
Hard Disk	4 x minimum <b>600 GB Enterprise Hard Disk SAS @ 10000 rpm</b>
Power Supply	Redundant power supply
Form Factor	1U or 2U. One chassis should contain one node only.
Infiniband/ Gigabit/ LAN connectivity	As per requirement in PART- F.
Warranty	5 years on-site comprehensive warranty

1. At least one free PCIe Gen3 slot.
2. All nodes must have hot pluggable, redundant power supply and redundant fan units.
3. Operating System should be installed in RAID 1 using two Hard Disks.
4. Job Scheduler & Resource Manager logs should be in another set of two Hard Disks with RAID 1.

5. Master nodes should be in High Availability mode. Job scheduler, cluster management and monitoring tools should be available in failover mode.

6. Master Node to be provided connectivity to campus LAN (10 GbE)

**PART - B**

**CPU - only Compute Node (Quantity: 50 + 2 spare node)**

Components	Specifications
Processor	Intel Xeon E5-2697A v4, 2.6 GHz, 40MB Cache
Sockets per node	Two
Memory	4 x 16 GB ECC RAM, DDR4 2400MHz
Hard Disk	Enterprise SATA @ 7200 rpm, minimum 1 TB capacity, Enterprise Hard Disk (see Caption #6 below)
Power Supply	Redundant power supply
Form Factor	Dense form factor, with 0.5U per compute node.
Infiniband/Gigabit/ LAN connectivity	As per requirement in PART- F
Warranty	5 years on-site comprehensive warranty

1. At least one free PCIe Gen3 slot.
2. Performance should be calculated with Turbo-mode off.
3. All nodes must have hot pluggable, redundant power supply and fan units.
4. Redundant power supply solution should be considered at chassis level with N+1 redundancy or higher.
5. All services and file system of compute nodes have to come up automatically, upon booting them and after reinstalling from the master node.
6. If these are Diskless nodes, all compute nodes should boot within 5 minutes from the time of issue of one single command from either of the master nodes.
7. Power cycling (Power on/off) compute nodes should be from master nodes.
8. Two spare nodes must be present as part of the cluster and powered on always. Spare nodes should be installed with operating system and should be integrated with Infiniband network.

**PART - C**

**IO Nodes (If applicable - 4 Nos. minimum)**

Components	Specifications
Processor	Intel Xeon E5-2697A v4, 2.6 GHz, 40MB Cache

Sockets per node	Two
Memory	4 x 16 GB ECC RAM, DDR4 2400MHz
Hard Disk	SAS @ 10000 rpm, minimum 900 GB capacity, Enterprise Hard Disk with RAID 1
Power Supply	Redundant power supply, With HA (High Availability) and redundant hot pluggable fans.
Form Factor	None specified
Infiniband/Gigabit/ LAN connectivity	As per requirement in PART- F
Warranty	5 years on-site comprehensive warranty

## PART-D

### Storage

Components	Specifications
Storage Requirement	200 TB usable capacity storage on SATA/NL-SAS or SAS with Hardware RAID 6 (8 + 2) storage array with 5 GB/s write throughput performance. Read performance should not be less than write.
Storage	<p>1. Parallel File system (PFS) – Must be OEM Supported (Intel Luster or IBM GPFS). Bidders to include appropriate authorization letter from manufacturer for the same. Storage solution should be highly available and with no single point of failure including I/O servers, Metadata servers, Storage controllers, HBA Cards, cables, Fans and power supply.</p> <p>2. In case Luster PFS is proposed MDT in RAID 10 and OST in RAID 6 (Hardware RAID). (8 + 2) configuration.</p> <p>3. Global Hot Spare Disks: Disks amounting to 5% of total capacity of Enterprise SATA/NL-SAS or SAS provided as Global Hot spare (i.e., Global Hot Spare for every 2 LUN in RAID 6)</p> <p>4. Storage Throughput – Minimum 5GB/s write speed from compute nodes.</p> <p>5. Storage nodes &amp; Management nodes should be connected with KVM switch and display.</p>

	<p>6. KVM switch and display console should be from server OEM.</p> <p>7. In case Luster PFS is proposed, usable space for MDT should be at least 4TB.</p>
Disks Type	2TB or higher capacity 7.2K RPM or higher Enterprise SATA/ NL - SAS or SAS disks.
Benchmarks	<p>1. Open-source IOR/IO Zone benchmarks running on compute nodes with 1 MB block size and file size double than total storage cache and I/O node memory.</p> <p>2. Storage performance should be measured from client (compute node) using IOR benchmark for 5 GB/s write throughput.</p>
Connectivity	1. Infiniband / 16 Gbps Fibre connectivity between Storage servers to Storage enclosures with Redundant Connects & Links.
IO Nodes	<p>1. MDT should be mounted only with MDS server.</p> <p>2. OST should be mounted only with OSS servers.</p> <p>3. For MDT Failover, MDS Nodes should be configured with active/passive pair.</p> <p>4. For OST Failover, OSS Nodes should be configured with active/active pair.</p> <p>5. High Availability should be automated.</p> <p>6. Luster Failover and MMP (Multiple Mount Protection) should be configured.</p> <p>7. File system should not go down, even if one of the MDS or OSS nodes fails.</p> <p>8. Mounting and unmounting of the file system should happen without error.</p>
Warranty	5 years on-site comprehensive warranty

## PART - E

### Software

Components	Specifications
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Job Scheduler	Torque with maui / SLURM
Resource Manager	Torque / SLURM
Operating System	Linux. Can be open source
Cluster Manager software	As per requirement in PART- G

1. All these software's should be configured with dynamic module environment.
2. User quota and group quota should be configurable.
3. All specified and required software products for the solution must be clearly listed with mode of licensing used and number of licenses required including the period of validity and any maintenance or upgrade applicable.
4. Restrictions on software usage, if any, should also be indicated.
5. PERPETUAL LICENSE is required for all these software's.

## PART - F

### Network / Interconnect

Components	Specifications
Infiniband Low Latency fabric Interconnect for Computation.	<ol style="list-style-type: none"> <li>1. Minimum 56 Gbps Infiniband in terms of bandwidth with adequate number of ports to allow expansion of another 30 additional compute nodes in future. Total IB ports should not be less than 100.</li> <li>2. Chassis switch with redundant power supply, redundant fan, HBA cards and Required number of Infiniband cables to connect all nodes etc.</li> <li>3. The solution should have fully non-blocking interconnect fabric, with Fat-tree IB interconnect topology.</li> <li>4. Management modules in IB interconnect switch should be redundant.</li> </ol>
Management switch (Gigabit LAN switch)	<ol style="list-style-type: none"> <li>1. All nodes to be connected by Gigabit network for administrative works.</li> <li>2. Gigabit Ethernet switch with adequate number ports to allow another 30 additional compute nodes in near future. Required number of cables to connect all nodes.</li> <li>3. All Network/Interconnect cablings must be structured and adhere to</li> </ol>

	ANSI/TIA – 568 standard  4. Gigabit switch should be manageable and stackable with SFP fibre module.
Support	5 years

### **PART – G (Cluster Manager Software features)**

1. Discovery of hardware on the network.
2. Update of firmware, and BIOS/UEFI settings.
3. Remote management of the hardware: power on/off, console, boot order control, inventory, vpd data, environmental.
4. Management of node services: DNS, HTTP, DHCP, TFTP, NFS, NTP
5. Central management of configuration files.
6. Parallel commands to all nodes: ping, copy, sync, run commands, node comparison.
7. Installation and configuration of monitoring tools.
8. Role-based administration. Different users can be assigned various administrative roles for different resources.
9. If it is commercial software, it should be quoted with appropriate licence for all master and all compute nodes.

#### **Cluster management**

1. User account management from master node.
2. Monitoring tool Nagios or better, integrated with Environment values, Load, Resource status, syslog status, system environment status, Hard Disk usage status and hardware configuration.
3. PDSH, Generating Host Keys for users and PDCP should be configured.
4. Users' home directory should be in file system with quota enabled.
5. Reimaging new nodes from master nodes.
6. Integration of all software components so as to make the complete HPC cluster system fully functional and usable (e.g., integration of the scheduler with MPI, any license managers, etc.).

#### **Job management**

1. Jobs can be submitted from master/slave/login nodes.
2. Jobs have to be scheduled based on Fair share calculation (i.e., Historical usage of CPU)
3. Scheduling with checkpoint and restart.
4. Job scheduler configuration including new/delete/disable queues.
5. Dynamic Resource Management and Resource balancing.
6. Policy based resource allocation.
7. Configure job scheduler so that it is integrated with all installed MPI/Compiler/Application combinations.
8. Configure job scheduler for script less (short command line) submission of jobs.
9. Modules support for maintaining multiple version of software's.
10. Job status monitoring, Job history
11. Usage accounting & reporting with total utilization of resource.
12. Check runaway process before entering new jobs.
13. Restricting user login to compute nodes.

## Compilers and Libraries

1. mpif90, mpicc, gfortran, gcc, f95, f77, OpenMP, MPI.
2. Libraries: MKL libraries including LAPACK and BLAS, FFTW 2 & 3, NETCDF-4 (parallel versions of all), GSL libraries. Intel Parallel studio 2016 (Cluster Edition) to be quoted as an additional item **for two-set of Floating Licenses**.
3. Scientific programs: Python, Numpy, SciPy, Setuptools, IPython, pythondev, pythonnumpy, pythonmatplotlib, pythontk, pythonxml, PyReadline, MDAnalysis.
4. Softwares: Vim, Gvim, NTPD, GRACE, BC, VMD and Perl.

### Note:

Possible scientific applications that will be used: Espresso, VASP, LAMMPS, Siesta, CPMD, CP2K, ABNIT, NAMD, GROMACS, AMBER, Nwchem.

## Firmware

1. All hardware should be installed with recent stable version of firmware.

## Services

1. Training for general system administration with documentation including tasks such as user/node management, installation/upgrade, queuing system management and file system management.
2. Technical support for administration/maintenance (both software and hardware levels) of HPC. Vendor will be responsible to protect data during any upgrades of firmware/OS.
3. The vendor must submit the name of the service engineers employed by them who are competent to service the HPC installation along with their contact details in India. Working knowledge of basic HPC setup viz. Job firing, Cluster setup etc., need to be provided to NISER's HPC administrator team.
4. Faulty parts should be replaced within 48 hours of logging a call.

## Documentation

1. User Creation/Deletion/Modification.
2. Bringing up and shutting down the cluster.
3. Disk status monitoring of Master/IO nodes and storage enclosure.
4. Basic troubleshooting for storage and job scheduler.
5. Step by step installation guide for node configuration from scratch.

6. Cluster Manager documentation for node re imaging etc...
7. Original CD/DVD's pertaining to the cluster including Operating System, Firmware, Libraries etc.. need to be handed-over after installation.
8. Case logging procedures for hardware and software problems, with escalation matrix.

**Cooling:** Digital Scroll-compressor based or more advanced precision air-conditioners with N+1 redundancy for adequate supply of cool air **equally** to all admin, compute and storage nodes. Inside temperature and humidity to be maintained at 16 C and 50% respectively against maximum ambient outside temperature and humidity of 45C and 90% respectively. Heater and humidifier to cater IT load up to 35 KW, The outdoor unit shall be IP54 type of protection. Cold air will be supplied to the cold aisle containment of the integrated cabinet with Fire detection and suppression system, WLD, Rodent Repellent and PDU, and the hot air will be taken from the hot aisle containment of the cabinet. Required cables and sockets to be supplied.

The cooling unit(s) to be interfaced with the cluster/server management software such that a systematic shutdown of the cluster is automatically initiated in the eventuality of cooling failure to be detected through rack based sensor to be used for monitoring the temperature of each rack. There should be networking card for monitoring the status of AC unit remotely or through LAN. Email intimations of such any shutdown to be sent to designated addresses by the cluster/server management software.

The vendor must provide 5 years comprehensive warranty for all software including Cluster Studio and hardware components. The vendor will thus be responsible for upkeep, periodic update and upgrade of the software components and maintenance as well as replacement of faulty hardwares for 5 year.

**Power backup:** The UPS System should be modular type. The modules should have N+1 redundancy. Battery bank of UPS to provide power back-up to the HPC solution for 30 minutes. The power back-up system to be interfaced with the cluster/server management software such that a systematic shutdown of the cluster is automatically initiated in the eventuality of prolonged power outage and send out email intimations of the same to designated addresses.

The vendor must provide 5 years comprehensive warranty for all software and hardware components including batteries. The vendor will thus be responsible for upkeep, update and upgrade of the software components and maintenance as well as replacement of faulty hardware and defunct batteries for 5 years.

UPS panel should have the provision to enhance the capacity to accommodate additional 30 compute nodes in future.



**Cooling and power back-up systems to be of same make.**

**Installation, Criteria of acceptance, Warranty and Training:**

1. Installation and integration of all supplied hardware and software shall be done by the vendor. The vendor shall install and configure all required hardware and software suites, including but not limited to racking and stacking, cluster networking, configuring all nodes, execution and submission of jobs, installation of compilers and applications, configuration of environment variables and license utility configuration.
2. As a part of acceptance of the system, the bidder must install, configure and optimize user application/software on the cluster and demonstrate successful serial and parallel execution of all the user application/software's upto satisfaction of the users and declaration of the same.
3. As a part of acceptance of the system, the vendor must reproduce the LINPACK benchmark after installation of HPC.
4. As a part of acceptance of the system, the bidders must demonstrate that 1 TB of data is written with a minimum speed of 5GBps as performance of the storage through IOR Benchmark.
5. As a part of acceptance of the system, the bidders must demonstrate the desired internal humidity level and temperature at full loading of all compute nodes with jobs.
6. Multiple copies of a detailed user manual and a day long admin and user training on the cluster usage and administration must be provided.
7. The supplied hardware for HPC, precision cooling and power-backup solution should have 5 year comprehensive on-site warranty including replacement of faulty hardware, defunct batteries, and upkeep, update and upgrades of software components at levels including BIOS, firmware, patches etc.
8. The implementation team must visit the site and provide a comprehensive solution including power back-up and cooling.

**General terms and conditions:**

1. Any item not specifically mentioned in the specification but is required for successful implementation of the HPC solution (in the option of the vendor) must be brought to our notice and quoted accordingly.
2. At the time of installation, if it is found that some additional hardware or software items are required to meet the operational requirement of the configuration, but not included in the vendor's original list of deliverable, the vendor shall supply such items to ensure the completeness of the configuration at no extra cost.

- 3. The delivery of the product must be within 8 weeks. Installation to be done within 12 weeks, after PO release.
- 4. The vendor immediately after the award of the work shall prepare a detailed plan of installation as proposed to be followed by placement of the equipment, etc.
- 5. The installation should be done by certified and trained engineers for HPCC stack (e.g. Parallel file system, Infiniband etc.) followed by comprehensive user training.
- 6. Installation and integration of all supplied hardware and software shall be done by the vendor. The vendor shall install and configure all required hardware and software suites, including but not limited to racking and stacking, Cluster networking, Configuring all nodes, Execution and submission of jobs, Installation of compilers (with flags for optimization) and applications, Configuration of environment variables and license utility configuration.
- 7. All the required CAT6 Patch cables should be branded (ISO/IEC 11801) and it should be molded cables. It should withstand the heat produced at the back of servers.
- 8. Give all model numbers of master nodes, compute nodes, storage nodes (MDS and OSS), Infiniband chassis switch model, maximum number of port in IB switch and how many ports populated.
- 9. Provide case logging procedure for both hardware and software failure.

**Formats for price-bid:**

Corresponding to each Part in the technical bid there should be a pricing referring to the Part name in the technical bid and mentioning quantity, unit price and total price. If there are any other charges, they should be also added at the end. All pages have to be serially numbered. References if any to technical bid should be provided along with the exact location (page number, etc). You are required to use the price bid format given by us only for commercial tender.

**Price Bid Format:**

Part Name (A to G) (as mentioned in the Technical bid)	Item Description	Qty.	Unit Price	Total Price
A				

B				
C				
D				
E				

F				
G				
Any Other				

**Note:**

**NISER reserves the right to Reduce (or) Increase the number of compute nodes alone on the pro-rata basis upto a band of +/- 15%. But the price bid comparison will be done based on complete HPC system with 52 compute nodes. Lowest bidder will be determined based on the rates quoted for the complete HPC system with 52 compute nodes only.**



**FINANCIAL BID  
FOR SUPPLY AND INSTALLATION  
OF  
HIGH PERFORMANCE COMPUTING CLUSTER  
FOR  
NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH,  
JATNI**

Sl. No.	Systems	Approx. Qty.	Unit Price FOB in Foreign currency	Unit Price including all taxes, freight, Insurance, entry tax (delivered at NISER, Jatni) service charges, installation and warranty charges in INR
(1)	(2)	(3)	(4)	(5)
<b>01</b>	<b>HIGH PERFORMANCE COMPUTING CLUSTER (NC-000307-12-R&amp;D-NIS-5.03-01-16-17-PTN-51)</b> (Detailed Specification As Per Our Technical Bid)	<b>01 Unit</b>		
2.	<b>Above item should carry five years onsite comprehensive warranty. In case the tendered provide warranty less than 05 years then he has to give justification for lesser period of warranty. Without justification his tender is liable to be rejected.</b>			
3.	Agency Commission to be paid to Indian Agent (will be paid in INR only after successful installation)	Included/Excluded _____% of basic price		
5	CIP Kolkata Charges	Amount		
6	Excise Duty Included/Excluded in the quoted price	_____ . _____% of basic price (Excise duty exemption certificate will be issued)		
7	Custom Duty Included/Excluded in quoted price	_____ . _____% of basic price (Custom Duty exemption certificate will be issued)		
9	Any other charges Included/Excluded in the quoted price (i) Trade tax/Sales tax (Institute will not issue any Sales Tax concession form) (ii) Any other levies	_____ . _____% of (basic price + excise duty) _____ . _____%		
10	AMC Charges after expiry of warranty	Amount in INR		

**ALL ABOVE ITEMS ON 5 YEARS ONSITE FULL COMPREHENSIVE FREE WARRANTY.**

Date:

Address:

(Company Seal)

Signature:

Name:

Designation:

On behalf of:

(Please take the printout on your letter head along with all details)

**To,**

The Finance Officer

NISER, Jatni Campus

P.O. – Jatni, Khurda - 752050

Odisha, INDIA

Ref: Tender Ref. No.: \_\_\_\_\_ Dated. \_\_\_\_\_

Sub: Refund of EMD

Dear Sir,

We have deposited EMD of Rs. \_\_\_\_\_/- vide D/D No. \_\_\_\_\_ dated. \_\_\_\_\_ of \_\_\_\_\_ **(Name of Bank)** against above mentioned tender. Since our tender has not being qualified, we request to release our EMD.

Yours faithfully,

Signature of the Authorised Signatory

(with company seal)

Our addressed is verified as below:

M/s. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Pin Code: \_\_\_\_\_

Phone No.: \_\_\_\_\_



**NATIONAL INSTITUTE OF SCIENCE EDUCATION & RESEARCH  
JATNI CAMPUS, P.O. – BHIMPUR-PADANPUR, VIA-JATNI  
KHURDA – 752050, ODISHA, INDIA  
Tender Notice No. NIT-03/2016**

**CHECK LIST**

Your bid should accompany with following documents. Please enclose the required document and put (√) mark in the check list where ever applicable.

Sl. No.	Description of Documents	Enclosure
1.	EMD to be attached with Technical bid only	Yes / No
2.	Part I of Tender Documents with Declaration by the Vendor	Yes / No
3.	Duly filled EMD refundable sheet (if EMD is there)	Yes / No
4.	General Information Sheet	
	Annual turnover in last 3 financial years in Rs. Crores (i) Year 2011-2012 (ii) Year 2012-2013 (iii) Year 2013-2014	Yes / No
	Supply & Installation of equivalent to our tendered for the required item from last 3 financial years in State Government or Govt. of India Department(s) /Reputed Organisation(s) (in Nos. and Value)  (Please attach list of clients) (i) Year 2011-2012 (ii) Year 2012-2013 (iii) Year 2013-2014	Yes / No
	Trade Tax / Sales Tax Registration no. with Place	Yes / No
	Income Tax Registration no. with place	Yes / No
5.	Detailed technical description of the item	Yes / No
6.	Detailed filled Financial Bid	Yes / No
7.	Authorisation letter in letter head duly signed by the authorised signatory for allowing your representative to attend the tender opening meeting.	Yes / No

Signature of the Authorised Signatory with Date

(with Company Seal)