INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH

An Autonomous Institution, Ministry of Human Resource Development, Govt. of India.
900, NCL Innovation Park, Dr. HomiBhabha Road,
Pashan Pune – 411 008.
Tel : +91-020-2589 8017
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Indian Institute of Science Education and Research (IISER), Pune, an autonomous Institute established under Ministry of HRD, Government of India. IISER is devoted to both teaching and research of the highest caliber in a totally integrated way. IISER, Pune would like to procure & install the following equipment. The Technical Specifications are given in **Chapter 4: Schedule of Requirements / Specifications and Allied Technical details** are appended herewith.

- **Items** : **A) SUPPLY, INSTALLATION & COMMISSIONING OF 30 Tera FLOPS (TF) HIGH PERFORMANCE COMPUTER (HPC) CLUSTER**

  B) SUPPLY, INSTALLATION & COMMISSIONING OF 200 TeraBYTES (TB) SAN STORAGE SOLUTION

- **Tender Enquiry No** : **IISER-PUR-1363-13**

- **Pre-bid Conference Date & Time** : **10.2.2014– 02.00 PM to 4.00 PM**

- **Due Date &Time** : **5.3.2014 up to 3.00 PM**
  (For submission of Bids)

- **Opening of Technical Bids** : **5.3.2014 at 03.30 PM**

Prospective BIDDERs may submit their offers to The Director, Indian Institute of Science Education and Research, 900, NCL Innovation Park, Dr. HomI Bhabha Road, Pashan, Pune – 411 008, India

ELIGIBILITY CRITERIA FOR - HIGH PERFORMANCE COMPUTER CLUSTER

Only those bidders fulfilling the following criteria should respond to the tender.

1. Bidder should be either an Original Equipment Manufacturer (OEM) or should be single Authorized System Integrator Partner having Direct Purchase and Support Agreement with the OEM.

2. The bidder should be registered under the Companies Act, 1956 or a registered firm. Registration certificate to be submitted.

3. In case the Bidder is a System Integration Partner of the Principal Manufacturer, a Certificate from the Principal Manufacturer clearly stating the relationship and level of partnership with the Partner and authorization to the Partner to quote for this Specific tender Enquiry is to be furnished. One OEM can authorize one partner only and one bidder can represent only one OEM.

4. The bidder should have documentary evidence of purchase orders for three or more, including at least one successful installation, of infiniband based HPC clusters of 10TF or higher in a single order and based (installed/ordered) in India within the last 3 years.

5. The bidder should have supplied, installed and integrated at least one
HPC Cluster running a parallel file system in India. Documentary evidence to be provided.

6. Bidder must be in existence in the HPC business for at least the last ten years. Documentary proof should be supplied.

7. The bidder should have had average annual financial turnover of Rs. 10 Crores or more during the last three years ending 31st March 2013.Kindly attach your last 3 years audited profit & loss balance sheet duly audited by C.A.

8. The bidder should ensure that all Hard ware (H/W) Components offered in the Bill of Material should be covered under OEM support enabling program so as to get back end support / benefits from Principles / OEM in terms of Free Software Update Support / Maintenance releases, if any, to a particular Software Version, access to 24 x 7 x 365 online support from Technical Assistance Center of OEM for resolution of problems with the help of Online tools and technical database for on-line resolution, advance defective part replacement during warranty period (3 years) within a period of two working days and OEM Login Access.

9. The undertaking from the OEM for the same should be enclosed with the technical bid. Required hardware for the solution should be from the same OEM.

    Only OEMs that fulfill the following criteria should be included in the bids

OEM has to feature in the top 500 supercomputer sites (available at www.top500.org) consistently over the past 3 years with at least 5 installations

globally and mentioned in the list,

- If OEM is bidding directly then, in addition to bidder eligibility criteria mentioned above, it should have at least 5 years' experience in the field of HPC and should have installed minimum 3 systems of the 40 TFLOPS (peak) performance globally.

- Each OEM is allowed to bid directly or through a single SI/Bidder for this tender. However, bidding should be for the entire HPC solution.

Technical Qualifying Criteria:

A.   The bidder should carry out below listed benchmark programs on 2TF, 5TF, and 10TF peak performance configurations of the offered solution and also on 20TF and 30TF peak performance configurations. The results (with TFLOP count where applicable) should be presented in an output file and included in the technical bid.

1. HPC Challenge Benchmark: This consist 7 test Linpac, Stream, FFT etc. (http://icl.cs.utk.edu/hpcc/)
2. BioPerf code. (http://www.bioperf.org/)
3. Cbench: stress   testing   and   analyzing   cluster (http://sourceforge.net/apps/trac/cbench).
4. GROMACS (see
   http://docs.notur.no/uit/misc/benchmarks2011/%20gromacs
   and http://www.hpc.cineca.it/content/gromacs-benchmark#cv45 for
   examples of previously used benchmarks)

B.   Provide output of the above benchmark on DVD/CD along with the bid. Do not provide the print out of the outputs.
Proposals of vendors who do not fulfill the above criteria or who fail to submit documentary proof would be rejected.

ELIGIBILITY CRITERIA FOR SAN STORAGE SOLUTION 200 TB

Only those bidders fulfilling the following criteria should respond to the tender.

1. Bidder should be either an Original Equipment Manufacturer (OEM) or should be single Authorized System Integrator Partner having Direct Purchase and Support Agreement with the OEM.

2. The bidder should be registered under the Companies Act, 1956 or a registered firm. Registration certificate to be submitted

3. In case the bidder is a System Integration Partner of the Principal Manufacturer, a Certificate from the Principal Manufacturer clearly stating the relationship and level of partnership with the Partner and authorization to the Partner to quote for this Specific tender Enquiry is to be furnished. One OEM can authorize one partner only and one bidder can represent only one OEM.

4. The bidder should have supplied, installed and integrated at least one 100TB or higher network storage solution hosting a parallel file system in India within the last three years. Documentary evidence to be provided.

5. Bidder must be in the business of providing network storage solutions for at least the last ten years. Documentary proof on that should be supplied.

6. The bidder should have had average annual financial turnover of Rs. 10 Crores or more during the last three years ending 31st March 2013.Kindly attach your last 3 years audited profit & loss balance sheet duly audited by C.A.

7. The Bidders should have a technical support centre located in Mumbai/Pune region.

8. All H/W Components offered in the Bill of Material should be covered under OEM support enabling program so that to get back end support / benefits from Principles / OEM in terms of Free Software Update Support / Maintenance releases, if any, to particular Software Version, Access to 24 x 7 x 365 online support from Technical Assistance Center of OEM for resolution of problems with the help of Online tools and technical database for on-line resolution, advance defective part replacement during warranty period (3 years) within a period of two working days and OEM Login Access.

9. The undertaking from the OEM for the same should be enclosed with the technical bid. Required hardware for the solution should be from the same OEM.

Only OEMs that fulfil the following criteria should be included in the bids

- If OEM is bidding directly then, in addition to bidder eligibility criteria mentoned above it should have at least 5 years' experience in the field of network storage solutions and should have installed minimum 3 200TB storage solutions globally.

- Each OEM is allowed to bid directly or through a single Bidder for this tender. However, bidding should be for the entire storage solution.

Technical Criteria:

A. All storage controllers/nodes must support Linux based operating system. Parallel file system should be Lustre/GPFS/IBRIX/GlusterFS and POSIX compliant or equivalent or better. Must support NFS (version3 and above), CIFS, iSCSI protocols.

B. Open source IO Zone or IOR must be used to demonstrate aggregate performance of the storage system. They must be run with many to one distribution of large sequential read and write of 1MB I/O block size. Benchmark must be run in the following modes with data size twice that of the node memory:

   1. All controller & disk LUNS working;
   2. At least one RAID6 LUN is in rebuilding mode; Performance in both scenarios should not differ by 25%

Proposals of vendors who do not fulfill the above criteria or who fail to submit documentary proof would be rejected.

I N D E X

CHAPTER-1. INVITATION FOR BIDS

1. Indian Institute of Science Education and Research (IISER), Pune invites separate sealed tenders for

    1)Supply, Installation & Commissioning of 30 TF High Performance Cluster and
    2) Supply, Installation & commissioning of 200 TB SAN Storage Solution. The Technical Specifications are given in **Chapter 4: Schedule of Requirements/Specifications and Allied Technical details** appended herewith.

2. The BIDDERs are requested to give detailed tenders for each of part 1) and 2) in their own forms in two Bids i.e

    Part - I : Technical Bid.

    Part - II : Commercial Bid.

    Bidders, at their discretion, may partner different OEM for each of the 2 parts of the tender. The evaluation of the two parts of tenders would be done separately and the outcome of one WILL NOT influence the other.

3. **Contact for information**:

    Technical & Commercial contact: Assistant Registrar (Stores & Purchase)
    Indian Institute of Science Education and Research (IISER), Pune
    900, NCL Innovation Park, Dr. HomiBhabha Road,
    Pashan,
    Pune – 411 008, India
    Tel : +91-020-2590 8017
    Fax : +91-020-2590 8186
    Website :www.iiserpune.ac.in

4. **A Pre-bid conference will be held at IISER, Pune , Board Room, 900 NCL Innovation Park, Dr Homi Bhaba Road, Pashan , Pune – 411008 on 10 /2/2014 from 02.00 PM to 04.00 PM (IST). All prospective bidders are requested to kindly submit their queries to the address indicated above or email ID :purchase@iiserpune.ac.in   so as to reach latest by 8/2/2014. During Pre-bid meeting the answers / clarifications to the queries will be made available. No queries will be entertained after the Pre-bid meeting.**

5. Supply means: "Supply, Installation, Commissioning and satisfactory demonstration of the whole system and training" . If any charges extra are payable for Installation, Commissioning and training, the same should be included in the commercial offer.

6. **Submission of Bids** :

    (i)   Place : Purchase Section of IISER, Pune - 411 008, India.

(ii)   Time and Date of Submission: Before 3.00 PM on 5.3.2014.

(iii)   Time and Date of opening Technical Bid: At 03.30 PM on 5.3.2014

IISER, Pune will not be responsible, for submission / delivery of quotation at wrong places other than the Purchase Section of IISER, Pune - 411 008, India

7.   **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 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 IISER-PUR-1363-13 due on 5.3.2014** and to be submitted to the address given below so as to reach on or before **3.00 PM on 5.3.2014**

The Director,
Indian Institute of Science Education and Research (IISER)
900, NCL Innovation Park, Dr. Homi Bhabha Road,
Pashan,
Pune – 411 008, India

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

➢ Tender Reference Number
➢ Due Date
➢ Name of the Vendor

▪ **Envelope No. 1 : Shall contain "Technical Bid" and Earnest Money Deposit (EMD)**

The technical offer **should not contain any price information.**

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 e.g. If the quotation contains 25 pages, please indicate as 1/25, 2/25, 3/25 -----------25/25.

The Technical Offer should comprise of the following:

(i)   Tenders, which are submitted without following the two bid offer system, will summarily be rejected.

(ii)   The technical bid should contain commercial terms with reference to the tender.

(iii)   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.

(iv)   The purpose of certain specific conditions is to get or procure best Equipment/service etc. for IISER, Pune. The opinion of Technical Committee shall be the guiding factor for technical short listing.

(v)   Undertaking that the successful BIDDER agrees to give a security deposit amounting to 10% of the purchase order value by way of Demand Draft in favour of The Director, IISER,Pune.

(vi)   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, Manufacturer's name, address and relevant Technical Literature / Brochures with warranty Terms and EMD.

(vii) 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.

(viii) Agreements / Purchase Orders / Completion certificates if any, for similar equipment to other IISER Institutes, the details of such supplies for the preceding three years should be given together with the prices eventually or finally paid.

(ix)   Solvency certificates (not older than twelve months) issued by Scheduled/ Nationalized bank with which BIDDER holds the current account to be submitted

S.No	Description of item	Value of Solvency Certificate
1.	High Performance Cluster	Rs 100 Lakhs
2.	SAN Storage Solution 200 TB	Rs 40 Lakhs

(x)   Copy of LST/CST/WCT No. PAN No. and TIN No. allotted by the concerned authorities. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration and a copy of DGS&D registration wherever it is applicable should also be provided in Technical Bid.

(xi)   A copy of the Un-priced Commercial Bid. (Please see Chapter-5 – Price Schedule).

(xii) The prices should be shown against each item for the purpose of Insurance claims / replacements if any.

(xiii) List of deliverables / Bill of materials and services.

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

(xv)   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.

(xvi)   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.

(xvii)   Duly filled in checklist as per Chapter 8 should be submitted along with the Technical Bid.

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:**

(i)   Price schedule complete in all respects with proper seal and signature of authorized person.The optional and any other essential items / accessories required for the maintenance of the equipment for the next ten years should also be specified in the offer separately. Discount offered should be mentioned clearly in the commercial bid only.

(ii)   Cost of all the items should be mentioned clearly and individually in the Commercial Offer only.

(iii)   The BIDDERs are requested to quote for Educational Institutional Price , since we are eligible for the same.

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

Technical Bids will be opened on － 5.3.2014 at 03.30 PM at:

Indian Institute of Science Education and Research (IISER)
900, NCL Innovation Park, Dr. HomiBhabha Road,
Pashan,
Pune － 411 008, India

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: (i)   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.

(ii)   No camera mobiles / mobiles are allowed during tender opening.

9.   **Formation of Technical Evaluation Committee**

The Technical Evaluation Committee(s) will be constituted by Director, IISER, Pune. He may nominate some external expert members, in the interest of IISER, Pune.

10.   **Terms of the Technical Committee**

(i)   A committee duly constituted by the Director, IISER, Pune will go through the technical aspects of the tender and recommend short listed firms. The recommendation of the technical committee is the final and binding on all the parties.

(ii)   The technical evaluation will be an assessment of the Technical Bid. IISER, Pune representatives will proceed through a detailed evaluation of the Technical Bids as defined in **Chapter IV (Schedule of requirements, specifications and alliedtechnical details),**in order to determine whether they are substantially responsive to the requirements set forth in the tender. In order to reach such a determination, IISER, Pune will examine the information supplied by the BIDDERs, and shall evaluate the same as per the specifications mentioned in this tender.

(iii)   The technical committee may formulate evaluation criteria in addition to the specifications and requirements indicated in the tender, in the interest of IISER, Pune and this criteria/recommendation will also form a part of short-listing of the firms.

(iv)   The Technical Committee will examine all the Technical aspects of the bids received. Further, the Technical Committee may seek additional information from the existing users at IISER, Pune or from other Institutes and also call for Technical presentations from the BIDDERs if it is required so.

11.   **Evaluation Criteria**

(i)   On the due date the Technical bids will be opened and referred to the Technical Committee that is duly constituted by the Director, IISER, Pune.

(ii)   The information received and the bids already submitted together will be examined with reference to the tendered specifications and evaluation is made by the Technical Committee.

(iii)   After the technical evaluation is completed and approved, IISER, Pune shall inform to the BIDDERs whose bids have been rejected technically with the reasons for rejection.

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 along with their EMD.

(iv)   The successful BIDDERs will be informed regarding the date and time of Commercial bid opening

(v)   The purpose of obtaining two bids (technical and commercial) is to evaluate all the firms on technical basis with reference to the tendered specifications, performance of similar Solutions/Applications elsewhere, obtaining users views with reference to the earlier supplies. This will enable the technical committee to arrive at a fair recommendation in the interest of the organization.

(vi)   In the event of seeking any clarification from various BIDDERs by IISER, Pune, the BIDDERs are required to furnish only technical clarifications that are asked for. No amendment to commercial bid will be entertained at that stage. In case if a BIDDER fails to quote for a particular item it amounts to non-compliance and hence such bid will not be considered for further evaluation. Further during this process if any BIDDER indicates the price during the clarification such bids also will not be considered for further evaluation.

12.   **Opening of Commercial Bids**

(i)   IISER 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.

(ii)   The BIDDER's representative who is present shall sign an attendance register as a proof of having attended commercial bid opening.

(iii)   The BIDDER's name, bid prices, discounts, EMD and such other details considered as appropriate by IISER, will be announced at the time of opening.

ONLY TECHNICALLY accepted competitive bids will be considered for placing Purchase Order.

(i)   After the opening the commercial bids, the offer of the BIDDERs will be tabulated with reference to the specifications and compared on FOB / FCA basis only.

(ii)   Though the comparison is made on FOB / FCA basis, the BIDDERs are required to provide the estimated cost of freight & insurance up to Mumbai i.e. CIF Mumbai.

(iii)   After arriving at final pricing of individual offers of all the short listed firms, the lowest firm will be awarded with Contract/Purchase Order.

The bid can be submitted in person or through post/courier (IISER 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 IISER on or before the due date and time. Fax / E-mail tenders will not be considered unless it is asked for. The BIDDERs' authorized representative can attend the bid opening.

14.   No request for extension of due date will be considered under any circumstances.

15.   No sub-contracting is allowed with regard to installation, commissioning, training, warranty maintenance and after sales service. This is the sole responsibility of the Principals'/their authorized agents.

16.   The Integrity Pact is applicable against this tender. Therefore, please attach the Integrity Pact document duly signed along with your tender. The name of the IISER Independent External Monitors shall be intimated shortly.

BID REJECTION / BID EVULATION CRITERIA

The following clause will be applicable against this tender.

IISER, Pune shall be entering into an Integrity Pact with the BIDDERs as per format enclosed vide Chapter - 7 of the tender document. The proforma has to be returned by the BIDDER (along with the technical bid) duly signed by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid.

Any bid not accompanied by Integrity Pact Proforma duly signed by the BIDDER shall be rejected straightway.

17.   The Director, IISER, PUNE reserves the right to accept the offer in full or in parts or reject summarily or partly.

CHAPTER-2 : INSTRUCTIONS TO BIDDERS

Delivery Period / Timeliness

The deliveries & installation must be completed **within 6 weeks** after placement of purchase order. The time is the essence of the contract. It is mandatory for the BIDDERs who respond to this bid to meet these expectations, as are tightly linked to IISER, PUNE's plans of completing the project within the time frame.

Locations for the Supply / Services:

The **SUPPLY, INSTALLATION & COMMISSIONING OF HIGH PERFORMANCE CLUSTER and SAN STORAGE** covered by this document is required to be supplied and installed at IISER, Pune.

1. **Eligible BIDDERs**

   1.1 IISER, PUNE reserves the right to award / reject the order to any particular BIDDER without assigning any reason thereof.

   1.2 BIDDERs should not be under a declaration of ineligibility for corrupt and fraudulent practices.

   1.3 BIDDERs should QUOTE strictly in accordance with the requirements. The BIDDERs conditions printed on the reverse of the tender/quote or otherwise sent along with the tender shall not be binding on IISER, PUNE.

   1.4 BIDDERs shall adhere to the procedure and processes laid down in this document and shall follow fair and ethical practices of trade.

   1.5 Based on the list of installations provided by the BIDDER, IISER, PUNE will have its option to obtain details of the clusters their performance, after sales services etc. for evaluation of the tender, directly from the concerned institutes etc

   1.6 The tenders must be clearly written or typed without any cancellations/ corrections or overwriting.

   1.7 The makes/brand and name and address of the manufacturer, Country of Origin, Country of Shipment and currency in which rates are quoted are to be mentioned.

   1.8 Firms which have already supplied HPC Clusters to IISER, PUNE and have not completed required installation/commissioning/after sales service/warranty replacements etc. such firms offers will not be considered for further evaluation and no enquiries thereafter will be entertained.

   1.9 Conditional Offers will not be considered.

1.10 IISER, PUNE will not provide any accommodation/transportation for the engineers/ representatives for attending installation, commissioning and demonstration work. It is the absolute responsibility of the bidder to make their own arrangements.

1.11 The authorized person who signs the tender is required to indicate his e-mail ID, mobile No. and also general e-mail ID for easy and faster communication.

2. Amendment of Bidding Documents

2.1. At any time prior to the deadline for submission of bids, IISER, PUNE may, for any reason, whether on its own initiative or in response to the clarification request by a prospective BIDDER may modify the bid document.

2.2. All prospective BIDDERs who have downloaded the bidding document may visit IISER, PUNE website for amendments / modifications which will be binding on them

PREPARATION OF BIDS

3. Earnest Money Deposit (EMD)

3.1 The tender documents must be accompanied by Earnest Money Deposit (EMD) in the form of a Demand Draft/B.G drawn on any Scheduled/Nationalized Bank in favour of the Director, Indian Institute of Science Education and Research, Pune. The EMD can be submitted by the BIDDER himself or by his Indian Agent

3.2 The BIDDER who submits the tender on behalf of their principals should produce documentary evidence in support of their authority to quote or submit proforma invoice of their principals. In case the BIDDER is not represented by any Indian Agent the Bank Guarantee valuing **US $** should accompany the Technical Bid towards EMD. The details of EMDs is given below.

S.No	Description of item	In Indian Rupees	In US Dollar
1.	High Performance Cluster	Rs 5,00,000.00 (Rs Five Lakhs)	US$ 8000.00
2.	SAN Storage Solution 200 TB	Rs 2,00,00.00 (Rs Two Lakhs)	US$ 3200.00

3.3 The Bank Guarantee is insisted due to steep fluctuations in foreign exchange hence the foreign DD's are not accepted towards EMD.

3.4 Bids submitted without EMD will stand rejected. EMD will not be accepted in the form of cash / cheque or any other form other than DD/Bank Guarantee. No interest is payable on EMD.

3.5 The EMD will be returned to the BIDDERs(s)/Agents whose offer is not accepted by IISER, PUNE 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 Bank Guarantee as Security Deposit (SD). However, if the return of EMD is delayed for any reason, no interest / penalty shall be payable to the BIDDERs.

3.6 **The successful BIDDER, on award of contract / order, must send the contract / order acceptance in writing, within 15 days of award of contract / order failing which the EMD will be forfeited.**

3.7 **Though EMD has to be submitted by Demand Draft, Banker's Cheque or Bank Guarantee (from a scheduled Bank only), we prefer to have Bank Guarantee for easy return to the BIDDERs once a decision is taken by IISER, PUNE.**

3.8 The EMD shall be forfeited:

3.8.1 If the BIDDER withdraws the bid during the period of bid validity specified in the tender.

3.8.2 In case a successful BIDDER fails to furnish the Security Deposit.

4. **Security Deposit**

4.1 Within ten (10) days of the award of contract, the vendor shall furnish a Security Deposit amounting to 10% of the purchase order value in the form of Demand Draft/Bank Guarantee **(from scheduled Bank only)** favoring the Director, Indian Institute of Science Education and Research, Pune.

4.2 In case of bids in Foreign Currency, the Indian Representative / dealers can submit the EMD / Sight Draft in INR to IISER, Pune without any relaxation.

4.3 The Security Deposit should be valid for a period of warranty period as we plan to extend the same as Performance Bank Guarantee.

4.4 **Bank Guarantee wherever mentioned in this document may be read as "Bank Guarantee from any Scheduled Bank" only.**

5. **Amalgamation/Acquisition etc.:**

In the event the OEM / Bidder proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the BUYER/Successor of the Principal Company are liable for execution of the contract and also fulfillment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. while submitting your bid, you may confirm this condition.

6. **Period of validity of bids**

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

6.2. IISER, PUNE 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.

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

SUBMISSION OF BIDS

7**.   Deadline for submission of Bids**

7.1   Bids must be received by IISER, PUNE **before the time & date at address specified in the tender.** In the event of specified date for the submission of bids being declared as a holiday for IISER, PUNE, the bid-closing deadline will stand extended to the next working day. No communication is required in such cases, In the event of holiday on due date

7.2   IISER, PUNE may, extend this deadline for submission of bids, this will suitably be notified on the IISER, PUNE website.

8.   **Late Bids**

IISER, PUNE will not be responsible:

8.1   For delayed / late quotations submitted / sent by post / courier etc.

8.2   For submission / delivery of quotations at wrong places other than the Purchase section of IISER, Pune.

8.3   Fax / E-mail / Telegraphic / Telex tenders will not be considered.

8.4   Any bid inadvertently received by IISER, PUNE after the deadline i.e. due date & time for submission of   bids, will not be accepted and returned unopened to the BIDDER.

AWARD OF CONTRACT

9**.   Award Criteria**

9.1   IISER, PUNE shall award the contract to the technically qualified eligible BIDDER whose bid has been determined as the lowest evaluated commercial bid.

9.2   If more than one BIDDER happens to quote the same lowest price, IISER, PUNE reserves the right to award the contract to more than one BIDDER or any BIDDER.

10. **Purchaser's Right to vary Quantities at the time of Award**

10.1. IISER, PUNE reserves the right at the time of award of Contract to increase or decrease the quantity of items specified in the Schedule of Requirements without any change in price or other terms and conditions.

10.2. Firms which have already supplied similar equipment to IISER, PUNE and have not completed required installation/commissioning/after sales service/ warranty replacements etc. such firms offers will not be considered for further evaluation and no enquiries thereafter will be entertained.

10.3 **The Director, IISER Pune reserves the right to buy the entire system from a single bidder or in parts from multiple bidders.**

11. **Cargo Consolidation and Customs Clearance:**

IISER, PUNE has appointed its own Freight Forwarder and Custom House Agent for all IISER, imports. Please note that all the consignments have to be routed through their associates only. The address and contact details will be provided at the time of placing the Purchase Order. While submitting your bid, you may confirm this condition.

12. **Corrupt or Fraudulent Practices**

IISER, PUNE requires that the BIDDERs who wish to bid for this project have highest standards of ethics.

12.1. IISER, PUNE 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.

12.2. IISER, PUNE 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

13. **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, IISER, PUNE᾽s interpretation of the clauses shall be final and binding on all parties.**

CHAPTER - 3 : CONDITIONS OF CONTRACT

1. **Price**

   1.1. The price quoted shall be considered firm and no price escalation will be permitted.

   1.2. BIDDER may bid in Foreign Currencies on behalf of their Principals or in INR.

   1.3. The quotation should be only in Indian Rupees for indigenous items. In case of foreign quote, the vendors may quote their rates in Indian Rupees as well as in Foreign Currency.

   1.4. In case of foreign currency bids, the price criteria should be on FOB / FCA. basis.

   1.5. Packing, forwarding, freight, insurance and commissioning charges, if any extra may be quoted separately in Commercial Bid.

   1.6. In case your quote is Ex-works/FOB / FCA basis estimated insurance coverage charges may please be indicated.

   1.7. CIF, Mumbai value both by Airfreight and Ocean freight.

   1.8. In case of Foreign Quote, the mode of dispatch should be by Air Post Parcel/Ocean Freight/Air Freight (By Air India Freight) and on Freight to-pay basis only. The approximate dimensions of the packages and weight of consignment are to be indicated.

   1.9. In case of INR bids the price criteria should be on F.O.R., IISER, PUNE. 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 IISER is exempted from payment of Excise duty vide Govt. Notification No.10/97-Central Excise dated 1st March,1997.

   1.10. IISER, PUNE is exempted from payment of Custom Duty vide Govt. Notification No.51/96-Customs dated 23rd July, 1996. However as per the Govt. of India further notification No.24/2002-Customs dated 1st March, 2002 notification No.19/2006Customs dt. 01.03.2006 Custom Duty is levied on all import meant for IISER, PUNE. Since the bidders are requested to quote only on FOB / FCA basis freight, insurance and custom duty as applicable to Education and Research Institutions will be paid by IISER, PUNE.

   1.11. BIDDERs may also bid for High Sea sales.

   1.12. The actual Sales Tax Percentage (without Form "C") if any, should be specified.

   1.13. Please provide TIN no. of the firm along with the CST/WCT No. allotted by the concerned authorities in your quotation.

2. **Bank Charges**

   All Bank charges inside India, including opening of LC, to IISER, PUNE Account and outside India to Beneficiary's Account only. In case the BIDDER seeks confirmation of LC such confirmation charges are to the Beneficiary's account. This may please be noted and confirmed.

3. **Agency Commission & Services**

   3.1.   The Indian Agency commission payable in Indian currency only after the receipt of consignment in good condition at our Stores and satisfactory installation and commissioning of the ordered equipment.

   3.2.   In case of foreign quote, the bidder should clearly indicate the address of the Indian Agent and percentage (%) of Agency Commission and taxes if any payable to him. Such amounts will be paid in Indian Currency to the Indian Agent.

   3.3.   Details of services rendered by you as well as after-sales services offered by you are to be made clear in the tender.

4. **Delivery Schedule**

   4.1.   The BIDDERs may please note that the delivery of the system should be strictly   within six weeks from the date of placement of firm order**.**

   4.2.   Goods should not be dispatched until the Vendor receives a firm order.

   Security Deposit

   The BUYER will forfeit the 10% security deposit if BIDDER fails to execute the order as per the Purchase Order. This Security Deposit will be refunded to the vendor only on successful installation of the High Performance Cluster and SAN Storage Solution 200 TB. .

6. **Performance Bank Guarantee**

   The 10% Security Deposit which is mentioned above may be extended as Performance Bank Guarantee for a period of warranty period**.**

7. **Performance Benchmarks**

   The technical evaluation committee needs to be provided with an evaluation system to carry out performance benchmarks.

8. **Pre-installation :**

   The BIDDER has to state in detail the Electrical Power/UPS requirements, floor Space, head room, foundation needed and also to state whether Air-conditioned environment is needed to house the system and to run the tests. i.e. pre-installation facilities required for   installation may please be intimated in the technical bid. Subsequently,   before the   consignment lands in IISER, Pune the BIDDER shall confirm that the pre-installation   requirements   are

sufficient for installation of the equipment. 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.

9.   Installation

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

9.2.   Installation demonstration to be arranged by the bidder free of cost and the same is to be done within 15 days of the arrival of the equipment at site.

9.3.   After installation, in case of system breakdown the downtime shall be no greater than 24 hours. Vendors would be penalized 1% of the quoted annual maintenance cost for years 4 and 5 (see item 12 of table 2 in chapter 4).

10.   Warranty / Support

10.1.   The items covered by the schedule of requirement shall carry minimum **three years of comprehensive warranty** from the date of acceptance of the equipment by IISER, PUNE.   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 24 hours and the full performance is restored within 72 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.

11.2   The vendor should specify total power consumption, electrical requirements, and air conditioning requirement of the cluster.

11.3   A burn-in test running diagnostic must be performed on the cluster for 24 hours on site. A test certificate should be issued along with the system.

11.5.   The warranty on the associated software should cover providing of upgraded version/s, if any, released during the warranty period free of cost.

11.6.   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 clusters on payment on approved price list basis.

11.7.   The system 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 contact the Principals vendor support Centre on a toll free number/web/mail.

11.8. An undertaking from the manufacturer is required in this regard stating that they would facilitate the BIDDER on regular basis with technology / product updates & extend support for the warranty as well.

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

11.10. The principal vendor must have a local logistics support by maintaining a local spares depot in the country of deployment of the equipment. This is to ensure immediate delivery of spares parts from Principal Vendor of equipment to its channel partner/system integrator.

11.11. Details of onsite warranty, agency who shall maintain during warranty and undertake Annual Maintenance Contract / Comprehensive Service Maintenance Contract beyond warranty shall be given in the offer. In case of foreign quote, the Indian Agent who shall maintain during warranty and AMC beyond warranty shall be given in the Technical Offer.

12. Annual Maintenance Contract

No sub-contracting will be allowed for installation or maintaining system/ equipment / instrument during or after warranty period.

13. Indemnity

The vendor shall indemnify, protect and save IISER, PUNE 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 equipments supplied by him.

14. Freight & Insurance

14.1. Imports: In case of imports the freight & insurance will be paid by IISER, PUNE, as the consignments are shipped through the IISER, PUNE nominated freight forwarder.

14.2. Indigenous: The equipments 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 IISER, PUNE site in case of Rupee transaction.

15. Payment

15.1. For Indigenous items, 90% payment shall be made against delivery, installation, commissioning and on acceptance as per Purchase Order at site and balance 10% shall be made after receipt of performance Bank Guarantee for 10% of the total order value, to be valid for till warranty period from date of installation and acceptance. If no Bank Guarantee is given, the balance 10% will be paid after assessing, after sales service during warranty period i.e. payment after warranty period.

15.2. For imported items, 90% payment shall be made by Sight Draft / an Irrevocable Letter of Credit established in favour of the bidder through the State Bank of India, Deccan Gymkhana Branch, Pune 411 004 (India) for the order value, excluding the Agency Commission due to the Indian Agents, against the presentation of original Shipping documents. Balance 10% will be released after completion of satisfactory installation, commissioning, demonstration of the whole system, after imparting training and upon receipt of Bank Guarantee for 10% of total Order value towards performance security to be valid for till warranty period from the date of installation. However Letter of Credit/Sight Draft arrangement will be made for 100% order value.

The Agency Commission to the Indian Agent will be paid in INR only after successful installation, commissioning and satisfactory demonstration and acceptance of the items ordered for by the end user.

15.3. The payment of local currency portion shall be payable in equivalent Indian Rupees, within 30 days after the receipt of the equipment in good condition and after satisfactory installation and commissioning and demonstration.

16. Penalty for delayed Services / LD

16.1. 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.

16.2. If the bidder fails to Supply, Install and Commission the system as per specifications mentioned in the order within the due date, the bidder 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 bidder..

16.3. IISER, PUNE reserves the right to cancel the order in case the delay is more than 10 weeks. Penalties, if any, will be deducted from the Security Deposit.

17. Jurisdiction

The disputes, legal matters, court matters, if any, shall be subject to Pune Jurisdiction only.

18. Force Majeure

IISER, PUNE may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that the delay, in performance or other failure to perform its obligations under the Contract, is the result of a Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.) acts of states, the direct and indirect consequences of wars (declared or undeclared) hostilities, national emergencies, civil commotion and strikes at successful BIDDER's premises.

19. **Arbitration**

All disputes of any kind arising out of supply, commissioning, acceptance, warranty maintenance etc. shall be referred by either party (IISER, PUNE or the BIDDER) after issuance of 30 days notice in writing to the other party clearly mentioning the nature of dispute to a single arbitrator acceptable to both the parties.

The venue for arbitration shall be IISER, PUNE India. The jurisdiction of the courts shall be Pune, Maharashtra, India.

Assistant Registrar (S&P)
03 February 2014

SCHEDULE OF REQUIREMENTS, SPECIFICATIONS & ALLIED TECHNICAL DETAILS

FOR SUPPLY, INSTALLATION, COMMISSIONING HIGH PERFORMANCE COMPUTING CLUSTER AND SAN STORAGE SOLUTION 200 TB
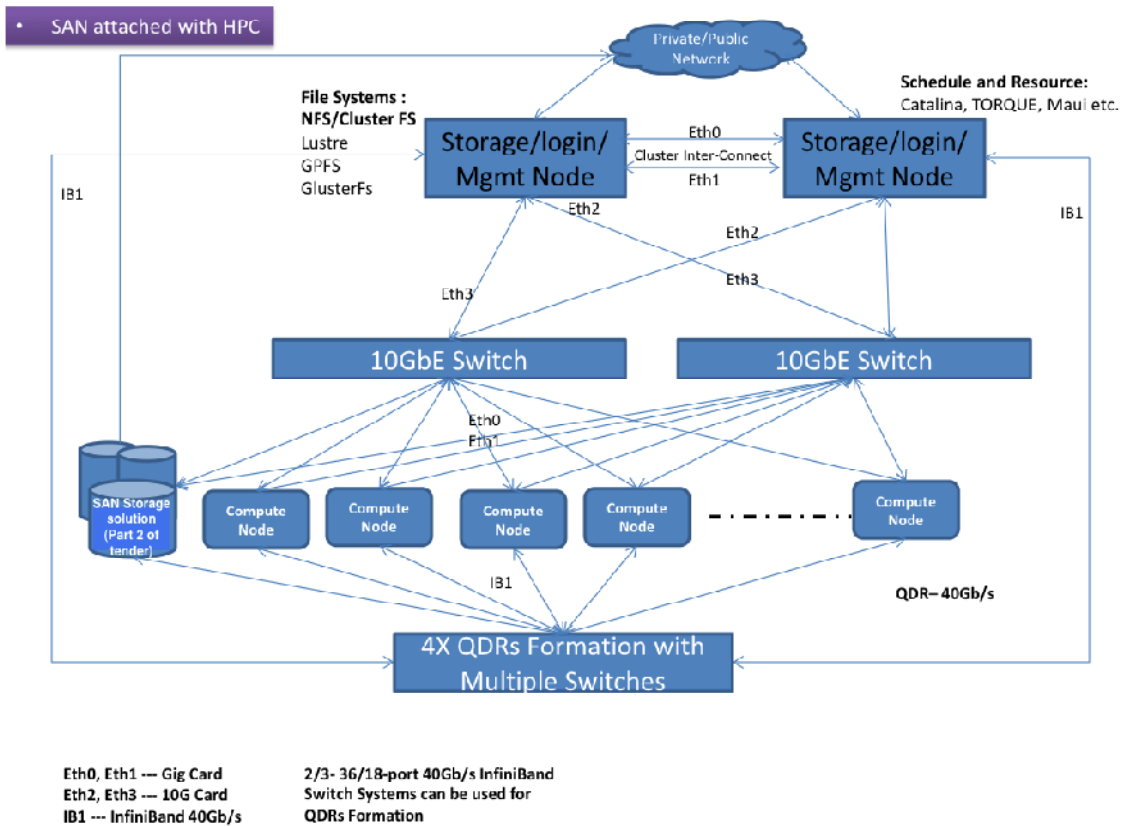
PART-I

HIGH-PERFORMANCE COMPUTING SYSTEM

IISER wants to build a state–of–the art CPU based High Performance Computing(HPC) facility using distributed memory architecture. The HPC facility will be a Linux cluster with redundant master nodes (that will also serve as storage and management nodes), compute nodes, 40Gbps QDR infiniband interconnect, 10Gbps network interconnect as a failover network. The cluster is expected to deliver a performance of 30TF(Tera Flop). Storage nodes will use high performance solid state drives (SSDs) for data sharing via a Parallel File system or network file system on IB or better, delivering high performance I/O for a very demanding data intensive environment. The HPC system should have the flexibility to scale for computation and storage performance. The System should be equipped with libraries to perform scientific and benchmark tests.

I – Cluster hardware and software:

1) General Specification of cluster and head nodes:

a) Cluster Architecture:

- SAN attached with HPC

File Systems :
NFS/Cluster FS
Lustre
GPFS
GlusterFs

Schedule and Resource:
Catalina, TORQUE, Maui etc.

EthO, Eth1 --- Gig Card
Eth2, Eth3 --- 10G Card
IB1 --- InfiniBand 40Gb/s

2/3- 36/18-port 40Gb/s InfiniBand
Switch Systems can be used for
QDRs Formation

The cluster will consist of management nodes and compute nodes connected by QDR IB interconnect or 10Gbps network. The entire solution should have ability to use the 10Gbps Ethernet network in case of any failure in QDR IB interconnect. Two servers will be used to form a high availability master node. This master node will serve as management, storage and login node. This node will have local storage using SSDs and will share volumes to all nodes via QDR IB interconnect or 10Gbps Ethernet network. QDR IB interconnect will be used for communication between the nodes and data storage sharing. All servers will be connected to the QDR switch and redundant 10Gbps Ethernet network switches. All servers should have ability to boot over the network with two or more Intel Xeon E5-2600 series CPUs. It is expected to have peak performance of 0.7TF per server. All servers should have redundant power supply and hot swappable disks, fans and cooling units. Cluster will be arranged in integrated rack unit(IRU). Each rack will be populated with rack mountable servers running Linux. The Cluster should be scalable to accommodate future requirements. The architecture of the cluster is given in Figure 1 above and the specifications of individual components (head nodes, compute nodes, switches etc) are provided below.

b) Head nodes– 2 Units (Rack mountable server)	
Processor Type	Dual/Quad CPUs with maximum cores per CPU possible.
Processor	Number of cores needed to obtain at least 0.7 TF peak processing power in each unit.
Memory Size	192 GB or better.
Internal Storage	3*>=146 GB or better SAS disks in RAID1 with a spare disk for OS. 4* >= 900GB or better SSD disks in RAID5.
Internal Media Drive	DVD ROM Drive
I/O Slots	Minimum 4 x Gigabit Ethernet Ports, 4x10 Gigabit,1x IB port

Head Nodes - 2 in High availability (HA) mode

- Head nodes will serve as management node, storage node, utility node and login node.
- Recommended configuration in high availability for managing the proposed cluster, share storage for all nodes and login for users.
- Preferred configuration for HA node will be active-active.
- Network configuration for private and public vlans.
- Should have adequate memory, processing power, disk space, interconnect, network points and any other relevant adaptors to support the cluster and to run utility software such as Cluster management tool, load management tool, compilers, debuggers etc.
- Connectivity to SAN is preferably through IB or equivalent or 10 G Ethernet.
- Should offer support for 10 G apart from 1G Ethernet network card(s).
- Should be scaled as needs arises.

2. Specification for the Compute nodes:

1.	No. and type of Processors	Number of CPUs and cores to be determined for realizing the peak performance of minimum
		flop(1Teraflop=1024 Gigaflop) through put. One of the following Intel Ivy bridge processors or better must be used for all the nodes 1. E5–2680v2 (10 cores, 2.8GHz) 2. E5–2695v2 (12 cores, 2.4GHz) 3. E5–2697v2 (12 cores, 2.7GHz)
2.	System RAM	4. 4Gb, DDR3 1600MHz per core or better must be provided
3.	Internal Storage	2* >= 900 GB or better SAS 10K RPMS or better disks in RAID1.
4.	I/O Slots	Minimum 2 x Gigabit Ethernet Ports,1x10 Gigabit, 1x IB port
4.	Interconnect	4x QDR Infini band Switch with 100% non-blocking architecture with 50 ports with ability to expand. 4 X QDR IB supports to OFED (Open Fabrics Enterprise Distribution) and open MPI. Support for managing the interconnect through an integrated software, should be included. Interconnect HBA, switch & cables should be from the same manufacturer/OEM certified. External dedicated managed Gigabit Ethernet switch(s) for cluster management should be provided. • 48 ports, L2 Gigabit Ethernet switch with 4*10G ports or better for uplink. • Port trucking/ Bonding capability • High speed stacking capability • CAT6 Cables of appropriate length to suite the solution for GigE connectivity and 8*10G cables • Power cables should be compatible with the quoted rack. • Rack mounting kit

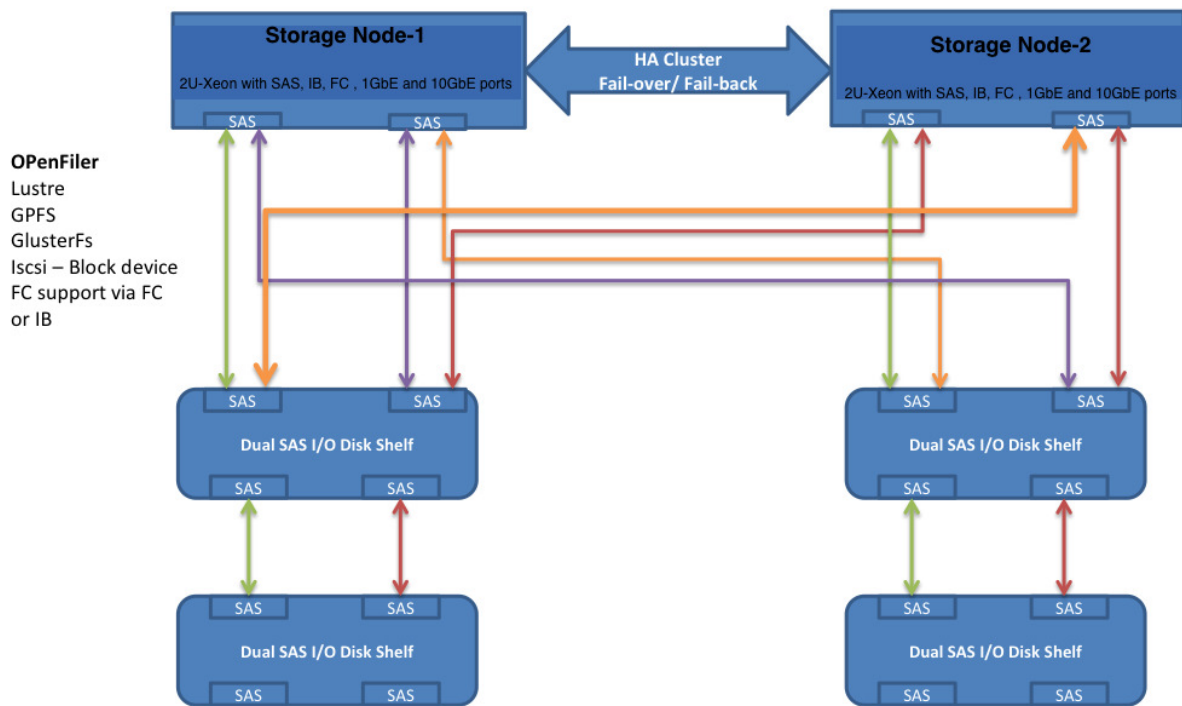| 5.	**Racks**	•42U OEM racks with adequate rack accessories and PDU should be provided. If it does not conform to this size, then the exact dimensions of the racks and the number of tiles occupied by the rack should be mentioned. The rack height should not exceed 48U. •Cabling for all the power and network connectivity should be neatly structured. •1U Rack mounted TFT monitor/keyboard/mouse along with 32 port KVM over IP switch & 32 cables/IPMI (Intelligent Platform Management Interface) or equivalent to monitor &manage utility nodes, head nodes, storage nodes etc.other than compute nodes should be added in the proposal. • The number of racks required to accommodate HPC hardware excluding storage should not exceed 3.
6.	**Software Components:**	The optimized Compilers, tools and libraries should a) improve programming productivity; b) allow application scalability and performance; c) Offer support for MPI and Open MP. Various software components should be quoted as a separate line of items.
a.	**Compilers**	C, C++, Fortran90, 95, 2003 with 5 users perpetual commercial license from INTEL (in case of Intel based solution) or OEM supplied compilers optimized for the hardware supplied or Open source compilers, should be quoted. It should be supported by the OEM/ISV.
b.	**Software tools**	•OEM certified Linux based Operating System (OS). •Software tools namely libraries/development kit required to run jobs should be quoted with minimum of 5 users perpetual commercial license and also equivalent open source options. •Intel cluster toolkit
c.	**Management tools**	•Software such as OS, and tools to manage the cluster and its hardware components are to be included. • Cluster monitoring tools should be provided such as Nagios, Ganglia. •All software should be commercially licensed versions or open source and must be from the OEM.

d.	Job Scheduler	Open source and commercial tools options should be quoted such as: Maui Cluster Scheduler or Moab Cluster suite, PBS, OpenPBS tools, platform LSF, TORQUE, Condor etc A comprehensive web portal that would allow users to a) choose their required resources(CPU/RAM); b) compile their codes; c) monitor job queues; d) provide easy access to job related data, and has the capability to easily perform basic operations like stopping, suspending, resuming or re-queuing jobs etc. should be provided.
7.	Benchmarks	The bidder should carry out below listed benchmark programs on 2TF, 10TF, 20TF and 30TF configurations of the offered solution and submit the results achieved (with TFLOP count where applicable) in an output file, in the technical bid. 1. HPC Challenge Benchmark: This consist 7 test Linpac, Stream, FFT etc. (http://icl.cs.utk.edu/hpcc/) 2. BioPerf code. (http://www.bioperf.org/) 3. Cbench: stress testing and analyzing cluster (http://sourceforge.net/apps/trac/cbench). 4. GROMACS (see a) http://docs.notur.no/uit/misc/benchmarks2011/%20gromacs b) http://www.hpc.cineca.it/content/gromacs-benchmark#cv45 for examples of previously used benchmarks) An acceptance test, consisting of a 72-hour burn test should be carried out. The bidder should arrange to run the application benchmark including LINPACK & mentioned software and submit a report. While submitting report make sure that all the timings outputs and makefiles (wherever applicable) are submitted in a digital format.
8.	Installation	The system should be OEM certified i.e. all hardware components namely utility nodes, head nodes, compute nodes or any other cluster specific server hardware, interconnect switches, cables and storage set-up as well as all software components namely operating system, cluster management software, compilers, libraries are to be installed and configured.

9.	Site requirement	• Detailed site preparation document should be provided. • Details of power consumption, heat dissipation and cooling requirements should be specified along with the detailed total cost of ownership for a period of 3 years. • Space and weight requirement should be specified. • The total power requirement to operate cluster hardware, the Uninterrupted power supply (UPS) and the precision air conditioners (PAC) should be clearly mentioned. Integrated chilled-water based in-rack/equivalent cooling of racks should be proposed.
10.	Expected power rating	Total of 95KW max. for the entire solution including all cluster hardware, during peak usage.
11.	Acceptance	Benchmark results to be demonstrated at the time of acceptance, after onsite burn test, should be within +3 % time deviation from OEM/bidder site benchmark time in order to release the balance payment.
12.	Support	3 years on site support and warranty must be provided directly by the OEM. Warranty Terms should be 24 x 7 (same day response). Optional pricing for 4th year and 5th year support & warranty must be quoted. The Bidder should have a technical support center located in Mumbai/ Pune with at least 2 technically qualified professionals in HPC systems installation/commissioning/product integration and support. Bidder should provide details of the cluster architecture and all other required information to the successful bidder of the storage solution (Part 2)
13.	Training	Bidder shall provide user and admin training to IISER-Pune at site of minimum 02 days

Part 2:
Storage

IISER is looking for an open source storage solution to fulfill the needs to backup, archive and sharing of data across the network. The solution should accommodate data flow over Ethernet network or InfiniBand (IB) 4x QDR network via NFS, CIFS, FC or iSCSI. The expected size of storage is 200TB with an ability to expand to 600TB or greater for further needs. The architecture of the SAN storage is given in figure 2 below.

200 TB usable space upgradable to 600TB		
Sr No.	Features	Storage Specifications
1.	Intended Use	1. Hosting Parallel File System. 2. File sharing via NFS and CIFS. 3. Disk based backup & archival system. 4. Block devices via FC or iSCSI.
2.	Controllers	Minimum Two storage controllers/nodes in active/active configuration seamlessly integrated with file system to achieve requested capacity & performance. These storage controllers/nodes should be directly connected to disks or disk shelves via a SAS multipath connectivity with ability to be controlled by any controller. There should be 2 ports of each 1Gbps, 10Gbps and IB network with a separate port for management. System should have ability to add more network and IB ports as per need.
3.	Operating System	All storage controllers/nodes must support Linux based operating system. Parallel file system should be Lustre/GPFS/IBRIX/Gluster FS and POSIX compliant or equivalent or better. Must support NFS (version3 and above), CIFS, iSCSI protocols.
4.	Software features	Support integrated automatic RAID Manager, disk error checkup and mark them failed before data loss, error or warning alerts via email, SNMP and agent based monitoring; Automatic error reporting via email. Snapshot and snap mirror ability. Support for parallel file systems. If separate licensing is required for these features, it must be included in the proposed system. Our preference would be for Open Source solutions.
5.	Protocol Support	NFSVersion3, CIFS, iSCSI over UDP and TCP. Parallel File system protocol for high speed with RDMA over QDR IB or equivalent or better interconnect.
6.	Disk Type	Archival & NFS Storage should be configured with 2TB/3TB or higher SATA HDDs (6Gbps or higher, 7200 RPM or higher). Parallel File System Storage and block device should support being configured with SAS (15K or 10KRPM) or SATA (7KRPM) to deliver required capacity and performance.

7.	Redundancy	Disk Drive, power supplies (220V) and fan modules should be redundant and hot s w a p p a b l e . Should be able to protect data against simultaneous double disk failure in the same RAID group. System should not have any Single Point of Failure (SPOF). All storage servers/controllers for Lustre/GPFS/IBRIX must be highly available with support for automated fail over in case of failure of one. The meta data should be served from SAS @ 15K RPM disks.
8.	Raid Levels	RAID Level 6 or equivalent with spare disks per aggregates. Should support protection against double disk failures in same RAID group that needs to be demonstrated at the time of installation.
9.	Performance Requirement	Throughput requirement of aggregate 4GB/Sec (Giga Byte per second) on parallel file system (for reads (2GB/sec) AND write (2GB/sec) simultaneously) or better; 512 Mega Byte/sec or better end to end throughput for NFS file system. Should be scalable to 8GB/Sec or better in the same system architecture. There should not be more than 25% degradation of performance in case of any component failure in the storage.
10.	File Locking	File Locking for Data protection from corruption while sharing files between UNIX and Windows users.
11.	File System Size	Parallel File System & NFS storage should independently support up to 2.5 PB or higher usable, single unified addressable space.
12.	Footprint	Storage for parallel file system, NFS and archival/back up must Not consume more than 1 standard 42 RU racks for storage and associated servers, and total weight including cooling arrangements should not exceed 1400kg/sq.m.
13.	Rebuild Time	Should not take more than15hrs to rebuild failed disk. This needs to be demonstrated at the time of technical evaluation. Preference will be given to the system that has special features to reduce rebuild time. Vendor must specify the maximum number of simultaneous rebuild tasks the storage system supports and it should not be less than 2 simultaneous tasks.

14.	Management Interface	Browser based management GUI. Should be compatible with MS Internet Explorer, Mozilla Firefox, Chrome and Safari
15.	Quality of Service	Should offer feature to display throughput/Band width to hosts
16.	Management Interface	Should have management tool to monitor status and health of the storage system, like Performance, throughput, Network Connection, controller health etc.
17.	Scalability	Storage system must offer scalability of storage capacity up to 600 TB usable space without adding extra controllers. Preference will be given to systems that can demonstrate scalability up to 2 PB just by adding disks and enclosures.
18.	Benchmarks	Open source IOZone or IOR must be used to demonstrate Aggregate performance of the storage system. They must be run with many to one distribution of large sequential read and write of 1MB I/O block size. Benchmark must be run in following modes with data size twice that of the node memory: 1. All controller & disk LUNS working; 2. At least one RAID6 LUN is in rebuilding mode; Performance in both scenarios should not differ by 25%
	Integration with the HPC	The storage should be compatible with HPC (part 1 of the tender). The responsibility of ensuring smooth integration with the HPC rests with the vendor of the storage/backup solution.
20	Fault Tolerance	Storage system must support fault tolerance in case of failure of disk, shelves, backend cables and a single controller out of active-active controller pairs. Performance of the storage system must not degrade more than 25% of the peak 4GB/Sec number if such failure occurs.

21.	Data Integrity	Storage system must support detection of Silent Data Corruption by doing parity checking on write and read operations both. There must not be performance impact of more than 5% because of parity checking on read and write operations. System should also support fixing of corruption in case of parity mismatch.
22	Network Protocol	Parallel File System must support RDMA over QDR IB/equivalent interconnect network. NFS and CIFS based storage must work over either QDR IB/equivalent interconnector 10G/1G Ethernet network.
23	Archival Storage	Storage system must support separate archival & backup storage capable of moving data on & off parallel file system. Archival storage must support compression and must be based on 2TB/3TB SATA 7K RPM spinning disks or better. It must be available to users via IB or 10G/1G Ethernet network interface. Storage with technology that spins down unused disks is desirable. Storage solution should provide ability to move and restore files from parallel file system based on policies.
24.	Pricing	Pricing for 200TB (Pricing should be specified in 50TB increments) total usable must be provided with all the features mentioned above with 3 years of support.
25.	Years of support	3 years on site support and warranty must be provided directly by the OEM. Warranty Terms should be 24 x 7 (same day response). Optional pricing for 4th year and 5th year support & warranty must be quoted. The Bidder should have a technical support center located in Mumbai/ Pune region with at least 2 technically qualified professionals to support the provided storage solution.

CHAPTER-5 : PRICE SCHEDULE - A

FOR HIGH PERFORMANCE CLUSTER

Bill of Material and Price Schedule

The Bill of materials must be included in the technical offer as well as commercial offer. **However the Technical offer should not contain any price information.**

ALL THE BIDDERS SHOULD QUOTE THEIR OFFER IN FOLLOWING FORMAT FOR UNIFORMITY

Imported Supply

Sr. No.	Item Description	Quantity	Rate	Total Amount. Currency.
	Total Ex-Works			
	FOB/FCA Charges			
	FOB/FCA Price, **Name of Port.**			
	CIF/CIP Charges			
	CIF/CIP Price, **Name of Port.**			
Amount in Words:				

Indigenous Supply (Local Supply)

Sr. No.	Item Description	Quantity	Rate	Total Amount. Currency (Rs)
	Total			
	(+) Taxes etc.			
	Grand Total			
Amount in Words (in Rs)				

CHAPTER-5 : PRICE SCHEDULE - B

FOR SAN STORAGE SOLUTION 200 TB

Bill of Material and Price Schedule

The Bill of materials must be included in the technical offer as well as commercial offer. **However the Technical offer should not contain any price information.**

ALL THE BIDDERS SHOULD QUOTE THEIR OFFER IN FOLLOWING FORMAT FOR UNIFORMITY

Imported Supply

Sr. No.	Item Description	Quantity	Rate	Total Amount. Currency.
	Total Ex-Works			
	FOB/FCA Charges			
	FOB/FCA Price, **Name of Port.**			
	CIF/CIP Charges			
	CIF/CIP Price, **Name of Port.**			
Amount in Words:				

Indigenous Supply (Local Supply)

Sr. No.	Item Description	Quantity	Rate	Total Amount. Currency (Rs)
	Total			
	(+) Taxes etc.			
	Grand Total			
Amount in Words (in Rs)				

OPTIONAL ITEM

PRICE SCHEDULE - C

FOR AMC

ALL THE BIDDERS SHOULD QUOTE THEIR OFFER IN FOLLOWING FORMAT FOR UNIFORMITY

Sr. No.	Item Description		Rate	Total Amount. Currency.
1.	AMC CHARGES FOR 4th YEAR WARRANTY			
2.	AMC CHARGES FOR 5th YEAR WARRANTY			
Amount in Words:				

CHAPTER –6 : BID SECURITY FORM

Whereas _____[1](hereinafter called " the BIDDER") has submitted its bid dated_____(date of submission of bid) for the supply of _____(name and/or description of the goods)(hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE_____ (name of bank) of_____(name of the country), having our registered office at_____(address of bank)(hereinafter called "the Bank"), are bound unto_____(name of Purchaser) (hereinafter called "the Purchaser") in the sum of_____ _____for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____day of _____ 20____. THE CONDITIONS of this obligation are:

1.   If the BIDDER withdraws it' s bid during the period of bid validity specified by the BIDDER on the Bid Form; or

2.   If the BIDDER, having been notified of the acceptance of it' s bid by the Purchaser during the period of bid validity:

    a)   fails or refuses to execute the Contract Form if required ; or

    b)   fails or refuses to furnish the performance security, in accordance with the Instruction to BIDDERs.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it , owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee shall remain in force up to one year after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

_____
(Signature of the Bank)

_____
[1] Name of BIDDER

CHAPTER – 7 :PRE CONTRACT INTEGRITY PACT

The specimen of the Pre-Contract Integrity Pact which is part of tender documents is as follows:-

INTEGRITY PACT

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on _____ day of the month _____ 2014 between the Indian Institute of Science Education & Research, 900,Innovation Park, Dr. HomiBhabha Road, Pune-411008 (herein after referred to as 'BUYER'), which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part and M/s _____ represented by Shri _____ Chief Executive Officer (hereinafter called the " BIDDER / Seller" , which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

Whereas the BUYER proposes to procure Supply, Installation & Commissioning of High Performance Cluster and SAN Storage Solution 200 TB and the BIDDER / Seller is willing to offer / has offered the stores and

Whereas the BIDDER is a private company/public company/partnership/ registered

export agency, constituted in accordance with the relevant law in the matter and

theBUYER is a Department of the Government of India under Ministry of Human Resources performing functions on behalf of the President of India.

Now, therefore,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/unprejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERs to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the BUYER will commit to prevent corruption in any form by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Commitments of the BUYER

1.1   The BUYER undertakes that no official of the BUYER, connected directly or Indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the Contract.

1.2   The BUYER will, during the pre-contract stage, treat all Bidders alike, and will provide to all Bidders the same information and will not provide any such information to any particular Bidder which could afford an advantage to that particular Bidder in comparison to other Bidders.

1.3   All the officials of the BUYER will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.

In case any such preceding misconduct on the part of such official (s) is reported by the Bidder to the BUYER, with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the BUYER the proceedings under the contract would not be stalled.

Commitments of BIDDER

3.   The BIDDER commits himself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or duringany pre-contract or post-contract stage in order to secure the contract or infurtherance to secure it and in particular commits himself to the following:

3.1   The BIDDER will not offer, directly or through intermediaries, any bribe, Consideration, gift, reward, favour, any material or immaterial benefit orother advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with bidding process, or to any person,

organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the Contract.

3.2 The BIDDER further undertakes that he has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise inprocuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the Contract or any other Contract with the BUYER for showing or forbearing to show favour or disfavour to any person in relation to the Contract or any other Contract with respect to the BUYER's Organisation.

3.3 BIDDERs shall disclose the name and address of agents and representatives and Indian BIDDERs shall disclose their foreign principals or associates.

3.4 BIDDERs shall disclose the payments to be made by them to agents/brokers on any other intermediary, in connection with this bid/contract.

3.5 The BIDDERs further confirms and declares to the BUYER that the BIDDER is the original manufacturer/ integrator/ authorized Govt. sponsored Export entity of the stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER, or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER; nor has any amount been paid, promised or intended to be paid to any such individual, firm or Company in respect of any such intercession, facilitation or recommendation.

3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the BUYER or their family members, agents, brokers or any other intermediaries inconnection with the contract and the details of services agreed upon for such payments.

3.1 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.

3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.

3.8 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details; including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.

3.9 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.

3.10 The BIDDER shall not instigate or cause to instigate any third person to commit   any of the actions mentioned above.

3.11 If the BIDDER or any employee of BIDDER on any person acting on behalf of BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financial interest / stake in the BIDDERs firm, the same shall be disclosed by the BIDDER at the time of filling of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

4. Previous Transgression

4.1   The BIDDER declares that no previous transgression occurred in the lastthree years - immediately before signing of this Integrity Pact, with anyother company in any country in respect of any corrupt practices envisagedherein or with any Public Sector Enterprise in India or any GovernmentDepartment in India that could justify BIDDERs' exclusion from the tenderprocess.

4.2   The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, canbe terminated for such reason.

5. Earnest Money/Security Deposit

5.1   While submitting commercial bid, the BIDDER shall deposit an amount * _____ (to be specified in RFP) as Earnest Money/ Security Deposit with the BUYER through any of the following instruments:

i.   Bank Draft or a Pay Order in favour of the BUYER payable at location of/specified by the BUYER.
ii.   A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the BUYER, on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the BUYER shall be treated as conclusive proof for payment.

5.2.   The Earnest Money/Security Deposit shall be valid up to a period of five years or the complete conclusion of contractual obligations to complete satisfaction ofboth the BIDDER and the BUYER, including warranty period, whichever is later.

5.3   In the case of successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same withoutassigning any reason for imposing sanction for violation of this pact.

5.4   No interest shall be payable by the BUYER to the BIDDER(s) on Earnest Money/ Security Deposit for the period of its currency.

6.   Sanctions for Violation

Any breach of the aforesaid provisions by the BIDDER or any one employed by him or acting on his behalf (whether with or without the knowledge of the BIDDER)shall entitle the BUYER to take all or any one of the following action, wherever required:-

(i) To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However the proceedings with the other BIDDER(s) would continue.

(ii) The Earnest Money (in pre – contract stage and /or/ Security deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason therefore.

(iii) To immediately cancel the contract, if already signed without giving any compensation to the BIDDER.

(iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due by the BUYER to the BIDDER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

(v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest,

(vi) To cancel all or any other Contracts with the BIDDER.The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money due to the BIDDER.

(vii) To debar the BIDDER from participating in future bidding process of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.

(viii) To recover all sums paid in violation of this pact by the BIDDER(s) to any middleman or agent or broker with a view to securing the contract.

(ix) In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.

(x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2   The BUYER will be entitled to take or any of the actions mentioned at para 6.1 (i) to (x) of the Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act 1988 or any other statute enacted for prevention of corruption.

6.3   The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the independent Monitors appointed for the purpose of the Pact.

7.   Fall Clause

7.1   The Bidder undertakes that he has not supplied/is not supplying the similar systems or subsystems at a price lower than that offered in the present bid in respect of any other Defence/ Public Sector Undertakings/Public sector undertakings/Ministry of Defence and if it is found at any stage that the similar system or sub-system was supplied by the BIDDER to any other Defence Public Sector Undertakings/Public Sector Undertaking/Ministry ofDefence at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

8   Independent External Monitor(s)

8.1   The BUYERis in the process of appointing independent Monitors (herein after referred to as Monitors), for this Pact in consultation with Central Vigilance Commission.

8.2   The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

8.3   The Monitor shall not be subject to instructions by the representatives of the parties and performs their functions neutrally and independently.

8.4   Both the parties accept that the Monitors have the right to access all the documents relating to the project / procurement, including minutes of meetings.

8.5   As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the IISER.

8.6   The BIDDER(s) accepts that the Monitor has the right to access without restriction to all project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors. The Monitor shall be under contractual obligation to treat

the information and documents of the BIDDER(s) / Contractor(s) / Subcontractor(s) with confidentiality.

8.7   The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the BUYER and the Contractor. The parties offer to the Monitor the option to participate in such meetings.

8.8   The Monitor will submit a written report to the Director IISER, Pune within 8 to 10 weeks from the date of reference or intimation to him by the BUYER and BIDDER and should the occasion arise, submit proposals for correcting problematic situations.

9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

10. Law and Place of Jurisdiction

This Pact is subject to Indian Law. The place of performance and Jurisdiction is Pune.

11. Other Legal Actions

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings

12. Validity

12.1   The validity of this Integrity Pact shall be from date of its signing and extend up to 5 years or till the complete execution of the contract to the satisfactionof both the BIDDER and the BUYER, whichever is later.

12.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions

13The Parties hereby sign this Integrity Pact at_____on_____

BUYER   BIDDER
Name of the Officer
Designation
IISER Pune

Witness   Witness

    1. _____   1._____

    2 _____   2 _____

CHAPTER –8 : Checklist: Eligibility Criteria for BIDDERs

BIDDERs to indicate whether the following are enclosed by striking out the non-relevant option.

S.No	Particulars	Documents Attached	Page No
1	Two separate bids duly filled in and signed in sealed envelopes (i) Technical (ii) Commercial	(**Yes** / **No**)	
2	The Demand Draft/BG - towards Earnest Money Deposit	(**Yes** / **No**)	
3	**Documents in support of proof as per eligibility criteria (page no -02)**	(**Yes** / **No**)	
4	Undertaking that the successful BIDDER agrees to give a 10 % security deposit and Performance Bank Guarantee.	(**Yes** / **No**)	
5	Authorization letter from Principals enclosed	(**Yes** / **No**)	
6	Self Attested copy of Sales Tax Registration certificate (CST/VAT etc) as applicable	(**Yes** / **No**)	
7	Agreements / Purchase orders / Completion certificates, if any, from the clients for whom similar supply has been made by the BIDDER in last three years	(**Yes** / **No**)	
8	Solvency certificate (not older than twelve months) issued by scheduled/nationalized bank with which BIDDER holds the current account	(**Yes** / **No**)	
9	Copy of PAN No. allotted by the concerned authorities	(**Yes** / **No**)	
10	A copy of the Un-priced Commercial bid	(**Yes** / **No**)	
11	List of deliverables as per Chapter- 4	(**Yes** / **No**)	
12	Copy of ISO 9002 or equivalent Certificate	(**Yes** / **No**)	
13	Compliance sheet with any deviation w.r.t. the terms	(**Yes** / **No**)	
14	Acceptance of IISER, PUNE Cargo Agent	(**Yes** / **No**)	
15	Bank charges agreed for outside India	(**Yes** / **No**)	
16	LD clause agreeable.	(**Yes** / **No**)	
17	Supply of spares for 7 years	(**Yes** / **No**)	
18	Amalgamation/Acquisition: Successor agreeable to fulfill the contractual obligations.	(**Yes** / **No**)	
19	Acceptance of warranty period and Free replacements during warranty period	(**Yes** / **No**)	

IMPORTANT NOTICE
BIDDERS RESPONDING TO THIS ENQUIRY SHALL BE DEEMED TO BE AGREEABLE TO THE TERMS AND CONDITIONS HEREIN CONTAINED. THESE TERMS AND CONDITIONS SHALL BE BINDING ON THE SUCCESSFUL BIDDER.CONDITIONAL TENDERS ARE LIABLE TO BE REJECTED. IISER PUNE WILL PROCESS THE TENDER AS PER IISER PUNE STANDARD PROCEDURES. THE DIRECTOR OF THE INSTITUTE RESERVES THE RIGHT TO REJECT ANY OR ALL OR PART OF TENDER WITHOUT ASSIGNING ANY REASON AND SHALL ALSO NOT BE BOUND TO ACCEPT THE LOWEST TENDER. IISER PUNE WOULD NOT BE UNDER ANY OBLIGATION TO GIVE ANY CLARIFICATIONS TO THE AGENCIES WHOSE BIDS ARE REJECTED**.**

I agree to all terms and conditions mentioned in the tender document of the Institute

Signature of the Bidder