

International Institute of Information Technology, Bangalore

(Myanmar Institute of Information Technology Mentoring Centre)

Tender Terms & Conditions for the Supply, Installation, Testing, Commissioning(SITC) and onsite support for DATA centre of MIIT project, Mandalay, Myanmar

(Delivery, Installation and Commissioning at Mandalay, Myanmar)

MIIT/39/17

TABLE OF CONTENT		
S.No.	Particulars	Page No.
SECTION I: INVITATION FOR BIDS (IFB)		
1	Contact Information	3
2	Two Bid System	3
3	Pre Bid Meeting	4
4	Date of submission of bids & opening of technical Bids	5
5	Opening of Commercial Bid	5
Section II: Instruction to BIDDERS (ITB)		
1	Delivery Period/Timelines	6
2	Location for Supply, Installation & Warranty Services	6
3	Order Placement & Release of payment	6
4	Eligible Bidders	6
5	Amendment of Bidding Document	7
A	Preparation of Bids	7
6	Earnest Money Deposit	7
7	Period of Validity of Bids	8
B	Submissions of Bids	8
8	Deadlines for Submissions of Bids	8
9	Late Bids	8
C	Bid opening & evaluation of Bids	8
10	Opening of Bids	8
11	Comparison of Bids	9
D	Award of Contract	9
12	Evaluation of Proposals & Award Criteria	9
13	Purchase right to amend scope of work	10
14	Corrupt & Fraudulent practices	10
15	Interpretation of the clauses in the tender document/ contract document	10
SECTION III: SPECIAL CONDITIONS OF CONTRACTS(SSC)		
1	Prices	11
2	Taxes & Duties	11
3	Software Licences	11
4	Chartered Engineer Certificate	11
5	Completeness Responsibility	11
6	Warranty	11
7	Payments	12
8	Performance Bank Guarantee	12
9	Shipping Documents & Insurance	12
10	Delays in suppliers' performance and Liquidated Damages	12
11	Jurisdiction	13
12	Force Majeure	13
13	Arbitration	13
14	Bid Form	14

	SECTION IV: Schedule of Requirement	15
	SECTION V: COMMERCIAL	
1	Price Schedule	31
2	Performa for Bank Guarantee towards EMD	33
3	Performa of Performance Bank Guarantee	35
4	Manufacturer Authorisation Format	36
5	Undertaking of Authenticity	37

SECTION I: INVITATION FOR BIDS (IFB)

International Institute of Information Technology (IIIT) Bangalore on be-half of Ministry of External Affairs (MEA) invites sealed tenders from eligible bidders for Supply, Installation, Testing, Commissioning(SITC) and onsite support for DATA centre of Myanmar Institute of Information and Technology (MIIT) Project at Mandalay in Myanmar on turnkey basis.

1. Contact information -

The Registrar,
International Institute of Information Technology,
26-C Electronics City Phase I,
Off Hosur Road,
Bangalore 560100
Tel No.: +91-80-41407777
Fax No.: +91-80-4140 7704
E-mail: registrar@iiitb.ac.in

2. Two bid System -

- i) The tender document can be downloaded from the websites: www.iiitb.ac.in or www.mea.gov.in or www.eprocure.gov.in. Two bid system will be followed for this tender. In this system bidder must submit his offer in two separate sealed envelopes as explained below:
- **Envelope No. 1: "Technical Bid" shall contain:**
 - a. Tender Fee in the form of Demand Draft for Rs. 2000/- drawn on any Nationalized/ Scheduled Bank, in favour of 'International Institute of Information Technology, Bangalore' payable at Bangalore.
 - b. Earnest Money in the form of Demand Draft/ Bank Guarantee of Rs.16 lacs from any Nationalized/ Scheduled Bank, in favour of 'International Institute of Information Technology, Bangalore' payable at Bangalore as mentioned at Para 6 (Section II).
 - c. Duly filled Technical Bid with proper seal and signature of authorised person on each page of the bid submitted. The person signing the bid should be the duly authorised representative of the firm/ company whose signature should be verified and certificate of authority should be submitted. The power or authorisation or any other document consisting of adequate proof of the ability of the signatory to bind the firm/ company should be annexed to the bid.
 - d. Self-Attested copy of VAT/ CST, Service Tax Number/ Registration certificate, as applicable.
 - e. A certificate by the auditor/ CA/ CS indicating the turnover of the firm should be enclosed. The bidder should have minimum average turnover of Rs 2.4 Crore in last three financial years.
 - f. All documents related with Firm Registration/ Partnership Deed/ Articles of Memorandum of Association or Proprietorship Deed, Certificate of Incorporation should be attached.
 - g. Relevant ISO certificate in IT Infrastructure.

- h. Only the authorised distributors/ resellers are allowed to bid for the items mentioned in the tender document. The specific authorisation letter from Principal/s clearly indicating that the bidder is competent to sell & provide services for the items mentioned in the Scope of Supply given in this tender document should be enclosed.
 - i. The copy of Supply Orders/ Contracts/ Agreements issued by/ signed with Government of India (Ministry/ Department/ Undertaking/ PSU/ Educational Institutions such as IIT's, NIT's, or other such Central Universities/Banking sector/IT SEZs/Technology parks/ Stock or commodity exchanges and reputed private organizations including educational institutions in India) for similar work, executed by the bidders in last five years ending March 31st 2017. The bidder should enclose the completion certificate duly issued by the end user. The bidder should have completed at least **ONE** similar work not less than Rs. 6.4 Crore OR **TWO** similar works not less than Rs. 4 Crore OR **THREE** similar works not less than Rs. 3.2 Crore. The similar work means supply & installation & on-site support of all/ most of the items mentioned in this tender document in a single project on turn-key basis in India/ abroad.
 - j. The installation and warranty services are required in Myanmar. The bidder should submit along with the technical bid; the detail plan for providing warranty service at site(s). The bidders should have their own branch office/ service centre in Myanmar or plans to provide service through local dealer/ service provider there. In either case, an undertaking to this effect should be submitted along with the technical bid. The details viz. name, address, contact person, telephone / fax, email etc. should be provided along with an undertaking from this local dealer/ service provider within 30 (thirty) days of the receipt of Supply Order from IIIT Bangalore (if applicable).
 - k. The detailed technical specification, make & model and compliance to the Schedule of Requirement (Section IV) should be provided in the technical bid.
 - l. Undertaking to the effect that all the tender terms & conditions are acceptable to the bidder.
 - m. Undertaking to the effect that a Performance Bank Guarantee (PBG) of 10% of the order value will be submitted within 15 (fifteen) days of the receipt of Supply Order from IIIT Bangalore.
 - n. Other related documents, mentioned in the tender document but not listed here.
- ii) **Envelope 2: "Commercial Bid "shall contain:**

Price schedule completed in all respects with proper seal and signature of authorised person.

Both the technical bid and commercial bid envelopes should be sealed separately and clearly marked as "Envelope no. 1 - Technical Bid" and "Envelope no. 2 - Commercial Bid" both the sealed envelopes should be placed in third larger envelope clearly mentioning "Technical Bid & Commercial Bid" for supply, installation & commissioning and on-site support of IT Hardware & Software for setting up of MIIT in Mandalay, Myanmar, and addressed to:

The Registrar,
International Institute of Information Technology,
26-C Electronics City Phase I,
Off Hosur Road,
Bangalore 560100
Tel No.: +91-80-41407777
Fax No.: +91-80-4140 7704
E-mail: registrar@iiitb.ac.in

Please write the **tender number** on each envelope and seal all the envelopes.

3. Pre Bid Meeting:

The pre-bid meeting shall be held on **5th May at 1100 Hrs** at
International Institute of Information Technology,
26-C Electronics City Phase I,
Off Hosur Road,
Bangalore 560100
Tel No.: +91-80-41407777
Fax No.: +91-80-4140 7704
E-mail: registrar@iiitb.ac.in

Maximum 2 (Two) participants per bidder will be allowed to participate in the Pre – Bid Meeting. The queries, if any, will have to be submitted in writing on/ before the day of Pre – Bid Meeting and the answers to the queries will be made available on our website. **No queries shall be entertained after the Pre – Bid Meeting.**

4. Date of submission of bids and opening of the Technical bids

Last date for submission of bids on **25th May 2017** up to **1300 Hrs** at:

International Institute of Information Technology,
26-C Electronics City Phase I,
Off Hosur Road,
Bangalore 560100
Tel No.: +91-80-41407777
Fax No.: +91-80-4140 7704
E-mail: registrar@iiitb.ac.in

Technical bid will be opened on **25th May 2017** at **1500 Hrs** at IIIT Bangalore

The bid can be submitted in person or through post/ courier (IIIT Bangalore shall not be responsible for any postal delays resulting in disqualification/ rejection of any bid) so as to reach on or before the due date and time. The bidders 'authorized representative (maximum two) can attend the bid opening/s.

The representatives of bidders may choose to attend the opening of the technical bids. In case bidder requires any clarifications / information they may contact IIIT Bangalore address given in Clause 2 of Section I.

The technical bids will be evaluated to shortlist the eligible bidders. The technical bids of only the short listed bidders shall be considered for further processing (technical evaluation).

Bidder whose technical bid is found to be acceptable and meeting the eligibility requirements as specified in this tender will be informed about the date and time of the opening of the price bid.

Note: Please do not put "Price Bid" (prices quoted) in the technical bid envelope. If the price quoted is submitted with technical bid the tender will be rejected.

5. Opening of Price bids

Price bids of the technically responsive bidders only will be opened, in the presence of the bidders or their authorized representative, who choose to attend, at the **time place and date** to be informed later.

The authorized representative of bidders, present at the time of opening of the bids shall be required to sign an attendance register as a proof of having attended the commercial bid opening.

The bidder's name, bid prices, discounts and such other details considered as appropriate by IIIT Bangalore, will be announced at the time of the opening of the bids.

(Technically accepted competitive bids ONLY will be considered for the opening of Price Bids).

END OF SECTION I

SECTION II: INSTRUCTIONS TO BIDDERS (ITB)

1. Delivery Period / Project Timelines

The delivery and installation at site(s) must be completed within 120 days from the date of placement of supply order by IIIT Bangalore. All the necessary spare parts and tools required for installation and commissioning of the tendered item will have to be supplied along with the tendered items. The custom clearance of the equipment would be facilitated by Indian Mission in Myanmar. The tendered equipment will be exempted from payment of Myanmar custom duties. It is mandatory for the bidders who respond to this bid to meet these expectations as time is the essence of this contract and is tightly linked to completing the project within the available time frame.

2. Locations for the Supply, Installation & Warranty Services

The items as detailed in this document are required to be supplied and installed at Myanmar Institute of Information Technology (MIIT) at Mandalay in Myanmar. The address of the site(s) for supply/ installation shall be communicated in the Supply Order.

3. Order Placements and Release of Payment

The supply order and payment shall be released by:

International Institute of Information Technology,
26-C Electronics City Phase I,
Off Hosur Road,
Bangalore 560100

4. Eligible Bidders

4.1 Experience: (a) Those bidders who are regular manufacturers of the tendered item should provide documentary evidence in support of their experience in the form of past purchase orders and their successful completion certificates for the tendered item. The purchase orders and successful completion certificates should be on the name of the bidders in any of the past 5 years (2012-2017) clearly mentioning that the bidder has satisfactorily executed supply, installation and commissioning of the tendered equipment. The bidders shall furnish "End User Certificates" indicating contact details i.e. name of person, phone/fax/mobile nos. etc where the equipment is installed. End User Certificates/Client Certificates submitted by the bidder along with the bid shall be subject to verification. **(b)** Those bidders who are authorized agents of the regular manufacturers of the tendered item should provide documentary evidence in support of experience in the form of past purchase orders and their successful completion certificates for the tendered item. The purchase orders and successful completion certificates should be either on the name of the bidding agent or in the name of the Principal/ manufacturer in any of the past 5 years (2012-2017) clearly mentioning that the bidder or its Principal has satisfactorily executed supply, installation and commissioning of the tendered equipment. The bidding agent shall furnish an undertaking/ authorization from the Principal/ Manufacturer for participating in this tender clearly mentioning that all necessary support for installation and commissioning of the tendered equipment shall be provided by the Principal to the bidding agent. The bidders shall furnish "End User Certificates" indicating contact details i.e. name of person, phone/fax/mobile nos. etc where the equipment is installed. End User Certificates/Client Certificates submitted by the bidder along with the bid shall be subject to verification.

4.2 The copy of Supply Orders/ Contracts/ Agreements issued by/ signed with Government of India (Ministry/ Department/ Undertaking/ PSU/ Educational Institutions such as IIT's, NIT's, or other such Central Universities/Banking sector/IT SEZs/Technology parks/ Stock or commodity exchanges and reputed private organizations including educational institutions in India) for similar work, executed by the bidders in last five years ending March 31st 2017. The bidder should enclose the completion certificate duly issued by the end user. The bidder should have completed at least **ONE** similar work not less than Rs. 6.4 Crore OR **TWO** similar works not less than Rs. 4 Crore OR **THREE** similar works not less than Rs. 3.2 Crore. The similar work means supply & installation & on-site support of all/ most of the items mentioned in this tender document in a single project on turn-key basis in India/ abroad.

- 4.3 The bidder should have minimum average turnover of Rs 2.4 Crore in the last three financial years.
- 4.4 Bidder should be **authorised distributors/ resellers** for all the items as mentioned in the tender document.
- 4.5 The bidders should have their **own branch office/ service centre** in Myanmar or arrangement to provide service through local dealer/ service provider.
- 4.6 Bidder should be registered with Sales Tax/ Income Tax Department of Government of India and should possess a valid **VAT/ CST, Service Tax Number/ Registration** as on date of bid submission.
- 4.7 Bidders should not have been blacklisted or declared ineligible for **corrupt and fraudulent** practices.

Note: IIIT Bangalore reserves the right to award/ reject the orders to any particular bidder without assigning any reason thereof

5. Amendment of Bidding Document

- 5.1 At any time prior to the deadline for submission of bids, IIIT Bangalore may, for any reason, whether on its own initiative or in response to the clarification request by a prospective bidder, modify the bid document.
- 5.2 All prospective bidders who have purchased the bidding document will be notified of the amendment in writing, and such amendments/ modifications will be binding on them.
- 5.3 IIIT Bangalore at its discretion may extend the deadline for the submission of bids if the bid document undergoes changes during the bidding period, in order to give prospective bidders time to take into the consideration the amendments while preparing their bids.

A. PREPARATION OF BIDS

Bid Form should be submitted by all bidders as per format provided on page 14 of the bid document. In case Bid Form is not submitted by the Bidder as per format, their bid shall be liable for rejection. Bidder should avoid, as far as possible, corrections, overwriting, erasures or postscripts in the bid documents. In case however any corrections, alterations, changes, erasures, amendments and/or additions have to be made in the bids, they should be supported by dated signatures of the same authorized person signing the bid documents. The bidders shall sign all the Terms and Conditions of the tender document in each page in token of accepting the conditions and enclose with the bid.

Local Conditions: It will be imperative on each Bidder to fully acquaint himself of all the local conditions and factors that would have any effect on the performance of the contract and cost of the Goods. The Purchaser shall not entertain any request for clarifications from the Bidder regarding such local conditions. No request for the change of price, or time schedule of delivery of Goods shall be entertained after the Purchaser accepts the Bid.

6. Earnest Money Deposit (EMD)

- 6.1 The tender documents must be accompanied by Earnest Money Deposit of Rs. 16 Lacs in the form of a Demand Draft (DD) drawn on any Nationalized/ Scheduled Bank, in favour of 'International Institute of Information Technology, Bangalore' payable at Bangalore OR Bank Guarantee (BG) as per the format provided in this document (Section V 2 – Bank Guarantee towards EMD) from any Nationalized/ Scheduled Bank in favour of 'International Institute of Information Technology, Bangalore' payable at Bangalore valid for 225 days from the date of bid opening.
- 6.2 Bids submitted without EMD will stand rejected. EMD will not be accepted in the form of cash/ cheque/ FDR or any other form except DD or BG. No interest shall be payable on EMD. The bidders registered with NSIC / MSME may claim exemption from submission from EMD. In this case bidder should submit a copy of valid NSIC/MSME registration certificate along with the technical bid. If bidder submits NSIC/MSME certificate in lieu of EMD then its technical competence to participate in the tender would be ascertained.

6.3 The EMD will be returned to the bidder(s) whose offer is not accepted by IIIT Bangalore. In case of the bidder(s) whose offer is accepted the EMD will be returned on submission of Performance Bank Guarantee (Refer Clause 8 of Section III). However, if the return of EMD is delayed for any reason, no interest/ penalty shall be payable to the bidder.

6.4 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.

6.5 The EMD shall be forfeited:

6.5.1 If the bidder withdraws the bid during the period of bid validity specified in the tender.

6.5.2 In case a successful bidder, fails to furnish the Performance Bank Guarantee (Clause 8 of Section III).

6.5.3 If the bidder fails to furnish the acceptance in writing, within 7 days of award of contract/ order.

7. Period of validity of bids

7.1 Bids shall be valid for minimum 180 days from the date of submission. Bid valid for a shorter period shall stand rejected.

7.2 IIIT Bangalore 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.

B. SUBMISSION OF BIDS

The Bid shall be neatly arranged, plain and intelligible. Each page of the bid should be signed by the authorized person. They should not contain any terms and conditions, printed or otherwise, which are not applicable to the Bid. The conditional bid will be summarily rejected. Insertions, postscripts, additions and alterations shall not be recognized, unless confirmed by bidder's signature.

8. Deadline for Submission of Bids

8.1 Bids must be received by IIIT Bangalore before the due date and time at the address specified in the tender document. In the event of the specified date for the submission of bids being declared as a holiday then the bid-closing deadline will stand extended to the next working day up to the same time.

8.2 IIIT Bangalore may extend this deadline for submission of bids by amending the bid documents and the same shall be suitably notified in the websites.

9. Late Bids

9.1 Any bid inadvertently received by IIIT Bangalore after the deadline for submission of bids, will not be accepted and returned unopened to the bidder.

C. BID OPENING AND EVALUATION OF BIDS

10. Opening of Bids

10.1 The technical bids will be evaluated to shortlist the eligible bidders. The technical bids of only the eligible bidders shall be considered for further processing (technical evaluation).

10.2 Bidder whose technical bid is found to be 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.

10.3 IIIT Bangalore will open price bids of only the technically short listed bids, in the presence of the bidder or their authorised representative who choose to attend the bid opening, at the time and date to be informed later.

10.4 The bidder's authorised representative who attends the bid opening shall sign an attendance register as a proof of having attended the bid opening.

- 10.5 The bidder's name, bid prices, discounts and such other details considered as appropriate by IIIT Bangalore will be announced at the time of opening of the price bids.

11. Comparison of Bids

- 11.1 Only the eligible and technically short-listed bids after the technical evaluation shall be considered for price/ commercial comparison.
- 11.2 The comparison shall also take into consideration the delivery schedule, payment terms etc. offered by the bidder in its technical bid. The bid not adhering to the terms as mentioned in Section II & III will stand rejected.

D. AWARD OF CONTRACT

12. Evaluation of Proposals & Award Criteria

- 12.1 The bidder must quote for all the items mentioned under Section IV – Schedule of Requirement. The lowest price criteria shall be applied on the total composite amount of all items taken together.
- 12.2 Preliminary scrutiny of the proposal will be made to determine whether they are complete, required processing fee and bid security have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Proposals not conforming to such preliminary requirements will be prima facie rejected.
- 12.3 Bids complying with all the eligibility requirements mentioned under Section II Clause 4 of the tender document and fulfilling the specifications and requirement mentioned under Section IV – Schedule of requirement of the tender document shall be treated as substantially responsive bids. Responsiveness of the bids shall be determined on the basis of the contents of the bid itself and shall not be determined by extrinsic evidences. The bid form as per the format signed by the bidder shall supersede deviation(s) mentioned in other part of the bid if any.
- 12.4 IIIT Bangalore may ask bidders for presentation on the solution offered, if required. IIIT Bangalore may also ask bidders for submission of missing/ additional documents, if required, for comprehensive evaluation of bids. Failure on part of bidder to arrange the documents/ presentation on the date & place fixed shall result in the rejection of technical bids and financial bids of these bidders shall not be opened. Also, if it is found after presentation or submission of additional documents that the solution offered is not meeting the specifications prescribed by, such bidders shall be treated as substantially non-responsive. IIIT Bangalore's decision shall be final in this regard. The place for presentation shall be conveyed to the bidders at an appropriate date.
- 12.5 IIITB would evaluate the technical bids based on the following criteria:

S.No	Criteria	Points
1	Technical capabilities and human resource	3.0
2	Financial strength of the company	2.5
3	Past Experience with similar projects	2.5
4	OEM/OEM Licensed Manufactures	1.0

The bidders must attain a minimum score of 6.0 to be considered technically responsive.

- 12.6 Price/ Commercial bids of only those bidders will be opened who are found to be substantially responsive and the work shall be awarded to the commercially lowest bidder.

- 12.7 Bidder should quote their rates in prescribed Performa (Section V – Price Schedule) only. Price/ Commercial bids other than the format provided shall be rejected by IIIT Bangalore.
- 12.8 In case of discrepancy between words and figures, the rates quoted in words shall be treated as final. The amount will be calculated by multiplying correct price with quantity and in case of any discrepancy, the corrected amount shall be considered and total of all corrected amount shall be bidder's total quoted amount.
- 12.9 In the copies of supply order/ contract/ agreement/ experience certificate submitted by the bidder, the currency is other than Indian Rupees, the value of work in Indian Rupees shall be determined by using the exchange rate declared by Reserve Bank of India as on the last date of submission of technical/ price bids and the eligibility of the bidder shall be determined accordingly.
- 12.10 If more than one bidder happens to quote the same lowest price, IIIT Bangalore reserves the right to split the order and award the contract to more than one bidder. The splitting in such case will be done on the basis of item wise lowest price quoted by the bidders.
- 12.11 No Bidder shall contact the Purchaser on any matter relating to his Bid from the time of the Bid opening to the time the contract is awarded.
- 12.12 Any effort by a Bidder to influence the Purchaser in the Purchaser's bid evaluation, Bid comparison or contract award decisions may result in the rejection of the Bidder's Bid.

13. Purchaser's Right to amend Scope of Work

- 13.1 If, for any unforeseen reasons, IIIT Bangalore is required to change the Scope of Supply, this change shall be acceptable to the bidder without change in the unit price quoted.
- 13.2 IIIT Bangalore reserves the right to reject one/ all the bids or cancel the tender without assigning any reasons there for.
- 13.3 IIIT Bangalore reserves the right to accord relaxation uniformly to all the bidder in case the bid submitted by all the bidders are found to have minor deviation.

14. Corrupt or Fraudulent Practices

- 14.1 It is expected that the bidders who wish to bid for this project have highest standards of ethics.
- 14.2 IIIT Bangalore will reject bid if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices while competing for this contract;
- 14.3 IIIT Bangalore 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.
- 14.4 The successful bidder would be required to submit an undertaking of authenticity for the IT equipment to be supplied in the format provided in Annexure 5 of Section V.

15. Interpretation of the clauses in the Tender Document / Contract Document

- 15.1 In case of any ambiguity/ dispute in the interpretation of any of the clauses in this Tender Document; Director IIIT Bangalore and MEA's interpretation of the clauses shall be final and binding on all parties.

END OF SECTION II

SECTION III: SPECIAL CONDITIONS OF CONTRACT (SCC)

1. Prices

- 1.1. The price quoted shall be considered firm and no price escalation will be permitted.
- 1.2. Bidders should quote the prices in INR(for Indian Bidders) or in US \$(for foreign bidders) and as per the format given in Price Schedule at Section – V of this document. If the rates are quoted in US Dollars then for the purpose of evaluation of price bids, the prevailing rate of exchange as on the date of technical bid opening will be taken into account for arriving at the equivalent rupee value of the quote.
- 1.3. The prices quoted should be inclusive of freight, insurance, packing, applicable taxes & duties till destination. The packing shall be transport worthy so as to prevent their damage or deterioration to goods during transit to their final destination as indicated in this document. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, and the remoteness of the Goods final destination and the absence of heavy handling facilities at all point in transit. However risk in good shall continue with supplier till goods are delivered in good condition and installed at end user's site.

2. Taxes and Duties:

- 2.1. The prices quoted should be inclusive of all taxes and /or duties except customs duty. The items being imported into Myanmar for this project will be exempted from payment of customs duty. Necessary Custom Duty Exemption Certificate shall be provided by Government of Myanmar. The Indian Mission in Myanmar will facilitate in obtaining the custom duty exemption certificate.
- 2.2. Bidder shall arrange to clear the consignment after following customs formalities at Myanmar and arrange to deliver the consignment to the end user. The cost and risk of the consignment rests with the bidder till it is delivered to the end user.
- 2.3. The basic prices and applicable taxes should be mentioned separately. The exact rates of taxes applicable, if any, as on the date of quoting must be mentioned. No concessional tax form (C/D) will be given by IIIT Bangalore.

3. Software Licenses:

The software mentioned in Schedule of Requirement is for MIIT in Myanmar hence the bidders should quote the licenses legally valid in Myanmar. The licenses shall contain paper licenses and at least one set of media (DVD's/CDs).

4. Chartered Engineer Certificate:

The successful bidder will be required to furnish the certificate from the Registered Chartered Engineer certifying that the items supplied and their specifications are in compliance with the requirements of the supply order issued by IIIT Bangalore.

5. Completeness Responsibility:

Notwithstanding the scope of work, engineering, supply and services stated in bid document, any equipment or material, engineering or technical services which might not be even specifically mentioned under the scope of supply of the vendor and which are not expressly excluded there from but which are necessary for the establishment of MIIT in Myanmar in accordance with the specification and executing the contract to establish achievement of performance guarantee parameters, are to be provided for and rendered by the vendor without any extra charge so that the said project is completed in all respect.

6. Warranty:

All the items covered in the schedule of requirements, shall carry minimum 2 (Two) years on site comprehensive warranty from the date of its installation & commissioning. The bidder must undertake to provide the installation and warranty service in Myanmar. The repairing/ rectification/ replacement/ configuration required, if any, must be done at site only. During the warranty, all complaints should be rectified within 7 days from the time of complaint. In case the rectification of fault involves replacement of some hardware the same should be carried out within 21 days from the date of intimation. Failure to do so would result in the invoking of the PBG. The PBG will be released by IIIT Bangalore only after the submission of satisfactory performance certificate issued by MIIT / Indian Mission & end-user after the completion of warranty period. The Purchaser reserves the right to reject any set of equipment found defective within 30 days after the date of acceptance of equipment. The cost towards replacement will have to be borne by the supplier.

7. Payments:

- i. IIIT Bangalore shall release 5% of the payment upon purchase order subject to receipt of the performance bank guarantee as outlined in clause 8 below.
- ii. IIIT Bangalore shall release 35% of the payment upon dispatch of the tendered items subject to submission of original shipping documents and BL.
- iii. IIIT Bangalore shall release 30% of the payment upon delivery of the tendered items at MIIT subject to satisfactory certificate of receipt by Embassy of India, Yangon and/or MIIT/IIIT-Bangalore.
- iv. Payment of 30% of the purchase order value will be made after physical verification by a Project Monitoring Committee (PMC).
- v. In case of foreign bidders who quoted in US \$, letter of credit(LC) will be opened and payment would be released as per 7(i), 7(ii), 7(iii) and 7(iv).

8. Performance Bank Guarantee (PBG):

The successful bidder must submit a Performance Bank Guarantee (PBG) of 10% of the order value within 15 days of receipt of supply order by IIIT Bangalore as per the format provided (Section V3– Performance Bank Guarantee) in the tender document. This Bank Guarantee should remain valid six months beyond the period of warranty.

9. Shipping Documents and Insurance:

After the consignment is ready for dispatch, the successful bidder shall be required to furnish the following documents:

- i. Chartered Engineer's Certificate
- ii. Packing List
- iii. Insurance Policy
- iv. Invoice & other relevant document(s)

Final Dispatch Clearance Certificate (FDCC) shall be issued by IIIT Bangalore on receipt of above mentioned documents from successful bidder. Actual shipment should be done only after receipt of FDCC from IIIT Bangalore.

Insurance: The Goods supplied under the contract shall be fully insured including transit insurance against various risks as required or approved by the Purchaser arising out of transportation, storage, delivery, installation, testing and commissioning at his cost up to delivery and installation at site. Insurance policy shall be valid up to the date of Installation and commissioning of equipment. Proof of Insurance shall be made available before issuance of dispatch clearance.

- 10.(A) Delays in the Supplier's Performance:** Delays in the Supplier's Performance: The time and the date specified in the Contract for the delivery and installation commissioning of the Goods & training shall be deemed to be the essence of the Contract. Delivery, installation and commissioning of the Goods & training and performance of Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser. An unexcused delay by the Supplier in the performance of its delivery, installation & commissioning Training obligations and performance of Services shall render the Supplier liable to any or all of the following sanctions, forfeiture of its

Performance Security, imposition of liquidated damages and/or termination of the Contract for default. If at any time during performance of the Contract, the Supplier or its sub-Supplier (s) should encounter conditions impeding timely delivery of the Goods and performance of the Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice the Purchaser shall evaluate the situation and may at his discretion extend the supplier's time for performance by such period as the purchaser may think fit and shall in the case of Force Majeure extend such time by such period as the Purchaser shall consider fair and reasonable.

(B) Liquidated Damages: If the Supplier fails to deliver, install and commission of any or all of the Goods & impart training or perform the Services within the time period(s) specified in the Contract and during the warranty period, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract price, as Liquidated Damages, a sum equivalent to 1.0% of the price of the delayed Goods or unperformed Services for each week of delay until actual delivery or performance, up to a maximum deduction of 10% of the value of the delayed portion of work.

11. Jurisdiction:

The disputes, legal matters, court matters, if any shall be subject to Bangalore jurisdiction only.

12. Force Majeure:

IIIT Bangalore 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 or 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 OEM premises.

13. Arbitration: If a dispute arises out of or in connection with the contract entered into under this tender, or in respect of any defined legal relationship associated therewith or derived there from, the parties will agree to submit that dispute to arbitration under the ICADR Arbitration Rules, 1996. The number of Arbitrators shall be three. Both parties will appoint one Arbitrator each. The third Arbitrator, as the presiding Arbitrator will be appointed by both the parties on mutual consent from the ICADR panel of Arbitrators. The International Centre for Alternative Dispute Resolution will provide administrative services in accordance with the ICADR Arbitration Rules, 1996.

END OF SECTION III

BID FORM

To:
The Registrar
International Institute of Information Technology
26-C Electronics City Phase I, Off Hosur Road
Bangalore 560100

NIT Ref. No:

Having examined the Bidding Documents including Addenda Nos., if any issued _____, the receipt of which is duly acknowledged, we, the undersigned, offer to supply and deliver..... (Description of Goods and Services) in conformity with said bidding documents.

We, undertake, if our bid is accepted, to deliver the goods in accordance with the delivery and Installation schedule specified in the aforesaid bid document.

If our bid is accepted, we will submit performance security in a sum of equivalent to 10% of the Contract Price for the due performance of the contract.

We agree to abide by this bid for a period of 180 (one hundred eighty) days after the date fixed for bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid together with your written acceptance thereof shall constitute a binding contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

We confirm that stipulated Bid Security is enclosed herewith as a part of bid.

We understand that you are not bound to accept the lowest or any bid you may receive.

We accept all your terms and conditions stipulated in this bid document without deviations, both technical & techno-commercial.

Dated this.....Day of..... 2017.....

(Signature) (In the capacity of)

Duly authorised to sign Bid for and on behalf of

_____ Signed

SECTION IV – Schedule of Requirement

Description of Work:

The successful bidder will be required to set up, installation and commissioning of entire data center operations for MIIT. The broad view of work but not limited to is outlined below:

- Set up and commissioning of Blade Enclosures
- Set up and commissioning of Blade Servers
- Set up and commissioning of Rack Mount Servers
- Set up and commissioning of Server Management Software
- Set up and commissioning of Server Access Switches
- Set up and commissioning of SAN Storage
- Set up and commissioning of Disk to Disk Backup
- Set up and commissioning of Tape Library
- Set up and commissioning of SAN Switches
- Set up and commissioning of Racks and Cabinets

The revised Bill of Material & Quantity:-

S. No	Item Description	Qty	
		(X)	Nos
1	Blade Enclosure / Chassis	1	Nos
2	Blade Server	5	Nos
3	Rack Servers	4	Nos
4	Server Management Software	1	No
5	Server Access Switch	2	Nos
6	Server Management Switch	2	Nos
7	SAN Storage	1	No
8	Disk to Disk Back Up	1	No
9	Tape Library	2	No
10	SAN Switches	2	No
11	Each 42U Rack with minimum 800W x 1200 D with Cable Manager, PDU in each rack should be SNMP enabled metered with Zero U mounting, Current drawn 32A, Output Voltage 230V. It should be possible to be mounted vertically inside the server racks., Environmental Monitoring device Unit i.e. Monitor temperature and humidity temperature and Humidity monitoring probes shall have SNMP capability (Get / Set) and made available on TCP/IP. for each rack	3	No
12	16 Port KVM Console Switch with required Cables	1	No
13	Minimum 18.5 Rack Monitor with track pad	1	No
14	UPS: Data Center 2 No's x 120 KVA/108KW Double Conversion True Online UPS operating in Parallel Redundant Mode with Independent Battery Banks for both UPS for 60 Minutes backup Time using SMF Batteries & Power Distribution Unit (Qty 1) (as per Specification given here below)	1	No
15	Data Center Cooling: 2 Ton Split AC (any make)	10	Nos
16	DATA Center : False flooring for 64 square meter.(688sqft)	64	sqmtrs
17.1	Windows Server Std 2012 R2 Singl OLPx64 bit AE	4	Nos

17.2	MS office 2013 or 2016 which ever latest	50	Nos
17.3	Symantec, Norton, eTrust, McAfee or any antivirus for Server for Windows and Linux	10	Nos

Item 1: Blade Enclosure / Chassis (1 Nos)

Sl. No.	Specifications
1	Blade Chassis
1.1	Solution to house the required number of blade servers in smallest number of enclosures. Industry standard suitable for housing in Standard Server Racks - The blade enclosure should offer at least 50% more higher server density per square-foot when compared to the dense 1U Rack servers. Should have support for full height and half height blades in the same enclosure, occupying a max of 10U rack height
1.2	Same enclosure should support Intel Xeon, AMD Opteron and EPIC processors based blades
1.3	Should support Hot Pluggable & Redundant Management Modules with onboard KVM functionality.
1.4	Should provide a highly reliable and high performance mid-plane/back-plane design in the blade enclosure. Should provide detailed technical information.
1.5	Should be able to accommodate the blade servers of specifications mentioned in the proposed blade enclosures. The proposals must offer the most dense packaging possible for the blade servers in the enclosure and maximum headroom for future expansion in the offered enclosures.
1.6	Support simultaneous remote access for at least 5 Server or all servers in the enclosure.
2	Interconnect
2.1	Should support simultaneous housing of FCoE, Ethernet, FC, and infiniband interconnect fabrics offering Hot Pluggable & Redundancy as a feature or Equivalent provision.
3	Blade Server connectivity to LAN and SAN
3.1	Dual network connectivity for each blade server for redundancy should be provided. Each blade should be proposed with converged network adaptor to connect to Ethernet and Fiber Channel storage network
4	Enclosure connectivity to LAN and SAN
4.1	Blade enclosure should be proposed with dual interconnect modules for redundancy to connect to Ethernet and storage network. Minimum of 80Gbps Ethernet network bandwidth and 64Gbps fiber channel network bandwidth be provided from the enclosure to external switches
5	Power Supply
5.1	The enclosure should be populated fully with power supplies of the highest capacity available with the vendor. Should offer a single phase power subsystem enabled with technologies for lower power consumption and offering high energy efficiency levels .Vendors should provide documents certifying the claims.
6	Cooling
6.1	Each blade enclosure should have a cooling subsystem consisting of redundant hot pluggable fans or blowers enabled with technologies for improved power consumption and acoustics
7	Remote Management

7.1	Must provide a remote management functionality to operate the server in both in-band and out-of-band. Must be part of the server without the need to install any additional hardware or software.
7.2	Must have a real time Virtual KVM functionality and be able to perform a remote Power sequence. Must provide both Java & Java-free browsing options. Or Blade Chassis should provide equivalent functionality of Virtual KVM.
7.3	Must have the ability to map the remote media to the server and ability to transfer files from the user's desktop/laptop folders to the remote server with only the network connectivity.
7.4	Must have the ability to capture the video sequence of the last failure and the boot sequence and also playback the video capture or equivalent technology.
7.5	Must have the ability to capture the video sequence of the last failure and the boot sequence and also playback the video capture or equivalent technology.
8	Power Management
8.1	Must be able to show the actual power usage and actual thermal measurement data of the servers.
9	Compliance
9.1	Vendors must submit supporting documents stating RoHS compliance.
10	System Software
10.1	Management/controlling software's have to be from the OEM of server make.

Item 2: Blade Servers (Qty 5 Nos)

Sl. No.	Specifications
1	Each server should be configured with 2* Intel Minimum E5-2620V4 processors
2	Each server should be proposed with Minimum: 256 GB of DDR4 2133 MHz memory. Should be capable of identifying and reporting whether genuine OEM memory is installed for system reliability.
3	Advanced ECC with multi-bit error protection and memory online spare mode
4	Server should be configured with 2 * Minimum 300GB SAS 15K RPM drives for local boot
5	Integrated PCIe 3.0 based 12G SAS Raid Controller with RAID 0, 1 with 1GB of Flash backed write cache onboard.
6	Server should be proposed with dual port 20Gbps converged network adaptor with the capability to carve each port into 3 network ports and 1 storage FC HBA to reduce complexity
7	Minimum of 1* internal USB 3.0 port and 1* internal SDHC card slot for hosting Hypervisor or equivalent
8	Minimum of 2Nos of 3.0 PCIe x16 based mezzanine slots supporting Converged Ethernet, Ethernet, FC adapters, SAS and IB adaptors
9	Integrated Video Controller

10	Should support monitoring ongoing management, service alerting, reporting and remote management with embedded Gigabit out of band management port Server should support configuring and booting securely with industry standard Unified Extensible Firmware System should support RESTful API integration System management should support provisioning servers by discovering and deploying 1 to few servers with Intelligent Provisioning
11	Security Features: Power-on password, administrator's password, Keyboard password (QuickLock) Out of band remote management Chipset with: SSL encryption, Secure Shell version 2 Advanced Encryption Standard (AES) and Triple Data Encryption, Standard (3DES) on browser, CLP and XML scripting interface, AES and RC4 encryption of video, External USB port enable/disable, Network server mode, Serial interface to access console through serial port, TPM (Trusted Platform Module) 1.2 option, Advanced Encryption Standard (AES) Intel Advanced Encryption Standard-New Instructions (AES-NI), FIPS approved algorithms
12	Should support Microsoft Windows Server, Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES), Canonical Ubuntu, Oracle Solaris Vmware
13	Essential tools, drivers, agents to setup, deploy and maintain (not the OS) the server should be embedded inside the server. There should be a built -in update manager that can update these tools online.
14	System remote management should support browser based Graphical Remote Console along with Virtual Power button, Remote boot using USB / CD/ DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media / image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication.
15	Dedicated remote management port should be provided and it should be able to download the firmware from the website directly or from internal system. Server should support automated firmware update.
16	Server should support agent less management using the out of band remote management port. Remote management port should have sufficient memory
17	The server should monitor and records continuously every hardware change, every configuration change, temperature and voltage variations, and alerts changes in the server hardware and system configuration without impacting server performance. This assists in diagnosing problems and delivering rapid resolution when system failures occur.
18	Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available
19	Should support managing multiple servers as one via, Group Power Control, Group Power Capping, Group Firmware Update, Group Configuration, Group Virtual Media, Group / individually License Activation
20	Should support remote console sharing up to 4 users simultaneously during pre-OS and OS runtime operation, Console Replay that captures and stores and supports replay of the console video during a server's last major fault or boot sequence, Microsoft Terminal Services Integration or equivalent, Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console.

Item 3: Rack Server (Qty 4)

Sl. No.	Specifications
1	2 U Rack Mountable
2	Each server should be configured with 2 Minimum E5-2620V4 processors equivalent or higher
3	Each server should be proposed with 256GB of DDR4 2133 MHz memory. Should be capable of identifying and reporting whether genuine OEM memory is installed for system reliability.
4	Advanced ECC with multi-bit error protection and memory online spare mode
5	Server should be configured with 6* 300GB SAS 15K RPM drives
6	One optional optical drive bay to install DVD-ROM or DVD-RW (depending on HDD selection)
7	Server should be proposed with PCIe 3.0 based 12Gb/s SAS Raid Controller with RAID capabilities 0/1/1+0/5/50/6/60/1) or equivalent
8	Server should be proposed with two dual port 10Gbps network adaptors which support PXE boot and virtualization features such as VMware NetQueue and Microsoft VMQ
9	Server should be proposed with dual port 16Gbps FC HBA to connect to external SAN switches
10	Should have Serial – 1, Micro SD slot – 1, USB 3.0 support With Up to 5 total: 1 front, 2 rear, 2 internal (secure) / USB 3.0 support With Up to 5 total: 2 front, 2 rear, 1 internal (Secure)
11	Should have minimum Six PCI-Express 3.0 slots, atleast two x16 and four x8 slots
12	Redundant platinum Power Supplies
13	Redundant hot-plug system fans
14	Integrated video Standard with 16 MB of Video RAM 1280 x 1024 (32 bpp) 1920 x 1200 (16 bpp) or equivalent
15	Server should be ACPI 2.0b Compliant, PCIe 3.0 Compliant, PXE Support, WOL Support, Microsoft Logo certifications, USB 3.0 Support, USB 2.0 Support, Energy Star, ASHRAE A3/A4, UEFI (Unified Extensible Firmware Interface Forum)
16	Embedded system management: Should support monitoring ongoing management, service alerting, reporting and remote management with embedded Gigabit out of band management port. Server should support configuring and booting securely with industry standard Unified Extensible Firmware. System should support RESTful API integration System management should support provisioning servers by discovering and deploying 1 to few servers with Intelligent Provisioning. System should support embedded remote support to transmit hardware events directly to OEM or an authorized partner for automated phone home support
17	Security Features: Power-on password, Serial interface control, Administrator's password, UEFI, Should support upto 12 customizable user accounts on out of band management port and SSL encryption Should also supports directory services integration, TPM 1.2
18	Microsoft Windows Server, Canonical Ubuntu, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES) Oracle Solaris, VMware Citrix XenServer
19	System should support Encryption of the data on both the internal storage and cache module of the array controllers using encryption keys. Should support local key management for single server
20	Essential tools, drivers, agents to setup, deploy and maintain the server should be embedded inside the server. There should be a built -in Update manager that can update firmware of system by connecting online.

21	<p>Remote Management:</p> <ol style="list-style-type: none"> 1. System remote management should support browser based graphical remote console along with Virtual Power button, remote boot using USB/CD/DVD Drive. It should be capable of offering upgrade of software and patches from a remote client using Media/image/folder; It should support server power capping and historical reporting and should have support for multifactor authentication. 2. Server should have dedicated 1Gbps remote management port. Remote management port should have 4GB NAND flash with 1GB available for user access. NAND flash should be used for keeping system logs and downloading firmware from OEM website or internal repository 3. Server should support agentless management using the out-of-band remote management port. 4. The server should support monitoring and recording changes in the server hardware and system configuration. It assists in diagnosing problems and delivering rapid resolution when system failures occur. 5. Applications to access the server remotely using popular handheld devices based on Android or Apple IOS should be available. 6. Remote console sharing upto 4 users simultaneously during pre-OS and OS runtime operation, Console replay - Console Replay captures and stores for replay the console video during a server's last major fault or boot sequence. Microsoft Terminal Services/equivalent Integration, 128 bit SSL encryption and Secure Shell Version 2 support. Should provide support for AES and 3DES on browser. Should provide remote firmware update functionality. Should provide support for Java free graphical remote console. 7. Should support managing multiple servers as one via Group Power Control, Group Power Capping, Group Firmware Update, Group Configuration, Group Virtual Media, Group/Individually License Activation
	Server Management
22	The Systems Management software should provide Role-based security
23	Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD. Should support automatic event handling that allows configuring policies to notify failures via e-mail, pager, or SMS gateway or automatic execution of scripts.
24	Should provide an online portal that can be accessible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contrast and status. The Portal should also provide a Personalized dashboard to monitor device health, hardware events, contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be accessible on premise (at customer location - console based) or off premise (using internet).
25	Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.
26	The Server Management Software should be of the same brand as of the server supplier.
27	Infra Platform /Infra Software to support a variety of different hypervisors, such as VMware, Microsoft Hyper-V and Red Hat RHEV
28	Solution available to Deploy a fast and easy installation
29	Management software should support integration with popular virtualization platform management software like vCenter, SCVMM and RedHat RHEV

Item 4: Server Management Software (Qty 1)

Sl. No.	Specifications
1	Software should support dashboard view to quickly scan the managed resources to assess the overall health of the data center. It should provide an at-a-glance visual health summary of the resources user is authorized to view.

2	The Dashboard minimum should display a health summary of the following: <ul style="list-style-type: none"> • Server Profiles • Server Hardware • Enclosures • Logical Interconnects • Appliance alerts
3	The Systems Management software should provide Role-based security
4	Software should support search for resource-specific information such as specific instances of resource names, serial numbers, WWNs, IP and MAC addresses to help manage infrastructure better
5	Management software should support integration with popular virtualization platform management software like vCenter, SCVMM and RedHat RHEV in future
6	Should help provide proactive notification of actual or impending component failure alerts on critical components like CPU, Memory and HDD.
7	Should provide an online portal that can be accessible from anywhere. The portal should provide one stop, online access to the product, support information and provide information to track warranties, support contract and status. The Portal should also provide a Personalized dash board to monitor device health, hardware events, contract and warranty status. Should provide a visual status of individual devices and device groups. The Portal should be available on premise (at our location - console based) or off premise (in the cloud).
8	Should help to proactively identify out-of-date BIOS, drivers, and Server Management agents and enable the remote update of system software/firmware components.
9	The Server Management Software should be of the same brand as of the server supplier.

Item 5: Server Access Switches (Qty 2 Nos)

Sl. No.	Specifications
1	<u>Architecture</u>
1.1	Shall be Rack Mountable
1.2	Shall have dual, hot-swappable power supplies
1.3	Shall have dual, fan tray slots which shall support front-to-back and back-to- front airflows
1.4	48 fixed Gigabit/10G SFP+ slots populated with 24 x 10G SR Transceivers
1.5	4 fixed 40-Gigabit QSFP+ slots
1.6	1 RJ-45 serial console port and 1 RJ-45 out-of-band management port
1.7	Shall have switching capacity of 1.28 Tbps
1.8	Shall have up to 952 million packet per second switching throughput
1.9	Shall provide Latency of < 1.7 μ s (64-byte packets)
2	<u>Resiliency</u>
2.1	Shall have the capability to extend the control plane across multiple active switches making it a virtual switching fabric or equivalent, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 router
2.2	Shall support virtual switching fabric or equivalent creation across multiple switches using 10G or 40G Ethernet Links
2.3	The modules/cables to create virtual switching fabric or equivalent shall be provided
2.4	IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.1s Multiple Spanning Tree Protocol
2.5	IEEE 802.3ad Link Aggregation Control Protocol (LACP)

2.6	Virtual Router Redundancy Protocol (VRRP) to allow a group of routers to dynamically back each other up to create highly available routed environments
2.7	Graceful restart for routing protocol
2.8	Shall provide hitless software upgrade with single-unit In Services Software Upgrade (ISSU) and hitless patching of modular OS
3	<u>Layer 2 and Convergence Features (any additional licenses required shall be included)</u>
3.1	Shall support up to 4,000 port or IEEE 802.1Q-based VLANs
3.2	MAC address table size of minimum 128000 entries
3.3	Shall have the capability to monitor link connectivity and shut down ports at both ends if uni-directional traffic is detected, preventing loops
3.4	Shall support Jumbo frames on GbE and 10-GbE ports
3.5	Internet Group Management Protocol (IGMP)
3.6	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)
3.7	Multicast VLAN to allow multiple VLANs to receive the same IPv4 or IPv6 multicast traffic
3.8	Data Center Bridging (DCB) protocols support including IEEE 802.1Qbb Priority Flow Control (PFC), Data Center Bridging Exchange (DCBX), and IEEE 802.1Qaz Enhanced Transmission Selection (ETS) for converged applications
3.9	FCoE support on all 10G SFP+ ports including expansion, fabric, trunk VF and N ports, aggregation of E-port, N-port virtualization
3.10	Transparent Interconnection of Lots of Links (TRILL) support to increase the scale of enterprise data centers or equivalent technology
3.11	EVB/VEPA support to provide connectivity into the virtual environment for a data center-ready environment. It should provide connectivity into the virtual environment for a data center ready environment
4	<u>Layer 3 Features (any additional licenses required shall be included)</u>
4.1	Static Routing for IPv4 and IPv6
4.2	RIP for IPv4 (RIPv1/v2) and IPv6 (RIPng)
4.3	OSPF for IPv4 (OSPFv2) and IPv6 (OSPFv3)
4.4	IS-IS for IPv4 and IPv6 (IS-ISv6)
4.5	Border Gateway Protocol 4 with support for IPv6 addressing
4.6	Policy-based routing
4.7	Multiprotocol Extensions for BGP-4
5	<u>QoS and Security Features</u>
5.1	Access Control Lists for filtering traffic to prevent unauthorized users from accessing the network
5.2	Congestion avoidance using Weighted Random Early Detection (WRED)
5.3	Powerful QoS feature supporting Strict Priority Queuing (SP), Weighted Fair Queuing (WFQ), Weighted Deficit Round Robin (WDRR), SP+WDRR, Ingress Rate Limiting
5.6	IEEE 802.1X Port Based Network Access Control
5.7	DHCP Snooping support including Option 82
5.8	Port security, Directed Broadcast Control
6	<u>Management Features</u>
6.1	Configuration through secure command-line interface (CLI) over Telnet and SSH
6.2	SNMPv1, v2, and v3

6.3	sFlow (RFC 3176) or equivalent for traffic analysis
6.5	FTP and TFTP support
6.6	Port mirroring to enable traffic on a port to be simultaneously sent to a network analyzer for monitoring
6.7	RADIUS or TACACS+ for switch security access administration
6.8	Network Time Protocol (NTP) or equivalent support
6.9	Shall support Open Flow protocol capability to enable software-defined networking (SDN) from Day 1
7	<u>Environmental Features</u>
7.1	Shall provide ROHS Compliance
7.2	Shall be capable of supporting both AC and DC Power inputs
7.3	Operating temperature of 0°C to 45°C
7.4	Safety and Emission standards including UL 60950-1; IEC 60950-1; VCCI Class A; EN 55022 Class A

Item 6: Server Management Switch (Qty 2)

Sl. No.	Specifications
1	<u>Architecture</u>
1.1	Shall be 1U Rack Mountable
1.2	Shall have dual, hot-swappable power supplies
1.3	Shall have dual, fan tray slots which shall support front-to-back airflow
1.4	48 RJ-45 1GbE ports (10/100/1000 Mbps) and 4 10GbE SFP+ Slots populated with 10G-SR Transceivers
1.5	Should have 2 fixed 40-Gigabit QSFP+ slots
1.6	Minimum 256MB supporting up to 2 GB SDRAM or more
1.7	Shall have switching capacity of 260 Gbps for non-blocking performance on all ports
1.8	Shall have up to 130 million packet per second switching throughput delivering wire speed forwarding on all ports
2	<u>Resiliency</u>
2.1	Shall have the capability to extend the control plane across multiple active switches making it a virtual switching fabric, enabling interconnected switches to perform as single Layer-2 switch and Layer-3 router
2.2	IEEE 802.1D Spanning Tree Protocol, IEEE 802.1w Rapid Spanning Tree Protocol and IEEE 802.1s Multiple Spanning Tree Protocol
2.3	IEEE 802.3ad Link Aggregation Control Protocol (LACP)
2.4	Virtual Router Redundancy Protocol (VRRP) to allow a group of routers to dynamically back each other up to create highly available routed environments
2.5	Graceful restart for routing protocol
3	<u>Layer 2 and Convergence Features (any additional licenses required shall be included)</u>
3.1	Shall support up to 4,000 port or IEEE 802.1Q-based VLANs
3.2	MAC address table size of minimum 128000 entries
3.3	Shall have the capability to monitor link connectivity and shut down ports at both ends if uni-directional traffic is detected, preventing loops
3.4	Shall support Jumbo frames on GbE and 10-GbE ports
3.5	Internet Group Management Protocol (IGMP)
3.6	IEEE 802.1AB Link Layer Discovery Protocol (LLDP)

3.7	Multicast VLAN to allow multiple VLANs to receive the same IPv4 or IPv6 multicast traffic
4	<u>Layer 3 Features (any additional licenses required shall be included)</u>
4.1	Static Routing, RIPv1/v2, OSPF, IS-IS, Border Gateway Protocol 4
4.2	Policy-based routing
4.3	Dynamic Host Configuration Protocol (DHCP) client, Relay and server
4.4	PIM Dense Mode (PIM-DM), Sparse Mode (PIM-SM) for multicast applications
5	<u>QoS and Security Features</u>
5.1	Access Control Lists for filtering traffic to prevent unauthorized users from accessing the network
5.2	Congestion avoidance using Weighted Random Early Detection (WRED)
5.3	Powerful QoS feature supporting Strict Priority Queuing (SP), Weighted Fair Queuing (WFQ), Weighted Deficit Round Robin (WDRR), SP+WDRR, Ingress Rate Limiting
5.6	IEEE 802.1X Port Based Network Access Control
5.7	DHCP Snooping support
5.8	Port security
6	<u>Management Features</u>
6.1	Configuration through secure command-line interface (CLI) over Telnet and SSH
6.2	1 RJ-45 serial console port and 1 RJ-45 out-of-band management port
6.3	SNMPv1, v2, and v3
6.4	sFlow (RFC 3176) or equivalent for traffic analysis
6.5	FTP and TFTP support
6.6	Port mirroring to enable traffic on a port to be simultaneously sent to a network analyzer for monitoring
6.7	RADIUS or TACACS+ for switch security access administration
6.8	Network Time Protocol (NTP) or equivalent support
6.9	Shall support Open Flow protocol capability to enable software-defined networking (SDN) from Day 1
7	<u>Environmental Features</u>
7.1	Shall provide ROHS Compliance
7.2	Shall be capable of supporting both AC and DC Power inputs
7.3	Operating temperature of 0°C to 45°C
7.4	Safety and Emission standards including UL 60950-1; IEC 60950-1; VCCI Class A; EN 55022 Class A

Item 7: SAN Storage (Qty 1)

Sl. No.	Specifications
1.0.1	Offered Storage array shall be a true converge / unified storage with a single Microcode / operating system instead of running different Microcode / Operating system / Controllers for File, block and object services respectively.
1.0.2	The storage array should support industry-leading Operating System platforms including: <i>Windows Server 2008, Windows 2012, Vmware, Sun Solaris, HP-UX, IBM-AIX, OpenVMS and Linux.</i>

1.0.3	<p>1. The Storage Array shall be offered with 30TB Usable Capacity. Out of this 15TB Usable on RAID5 using 900GB 12G 10K RPM SAS Disks or higher and 15TB Usable on RAID6 using 2TB/3TB/4TB NL SAS Disks (or which is ever best possible option)</p> <p>2. Storage shall be scalable to minimum of 400TB using 1800GB drives.</p>
1.0.4	<p>1. Offered Storage Array shall be given with Minimum of 64GB cache in a single unit and shall be scalable to 96GB without any controller change.</p> <p>2. Cache shall be used only for Data and Control information. OS overhead shall not be done inside cache.</p> <p>3. Offered Storage array shall also have additional support for Flash Cache using SSD / Flash drives. Both File services as well as Block operations shall be able to utilize flash cache. Minimum of 500GB Flash cache shall be supported.</p> <p>4. If Flash cache is not supported inside the storage array then vendor shall ensure that offered storage array shall be scalable to minimum of 128GB DRAM cache without any replacement or upgrade of controllers.</p>
1.0.5	<p>1. Offered Storage architecture shall be based on purpose built ASIC, XOR engine or equivalent so that there shall be no load on the storage CPU during Raid Parity calculations.</p> <p>2. In case vendor doesn't have above ASIC functionality then additional 16GB read and write cache shall be provided per controller pair to balance the performance.</p>
1.0.6	<p>Controllers shall be true active-active so that a single logical unit can be shared across all offered controllers in symmetrical fashion, while supporting all the major functionalities like Thin Provisioning, Data Tiering etc.</p>
1.0.7	<p>Offered Storage Array shall be configured in a No Single Point of configuration including Array Controller card, Cache memory, FAN, Power supply etc.</p>
1.0.8	<p>Offered Storage Array shall support 6Gbps dual-ported 300 / 600 / 900/1200 /1800GB hot-pluggable Enterprise SAS hard drives, Minimum of 400GB SSD Drives along with SAS MDL 1TB / 2TB / 3TB / 4TB drives.</p>
1.0.9	<p>1. Offered Storage Subsystem shall support Raid 0, 1, 1+0, 5 and Raid 6.</p> <p>2. Offered storage array shall have native virtualization support so that Raid 1, Raid 5, Raid 1+0, Raid 6 can be carved out from a logical space instead of dedicating separate physical disks for each application.</p> <p>3. Every supplied disk shall be able to participate into multiple and different raid sets simultaneously.</p> <p>4. In case vendor doesn't have above functionality, then 20% additional raw capacity shall be provided for each type of disk to balance out the capacity utilization.</p>
1.1.0	<p>Incase of Power failure, Storage array shall have de-stage feature to avoid any data loss.</p>
1.1.1	<p>Offered Storage array shall support all well-known protocols like FC, ISCSI, FCOE, SMB 3.0, NFS V4, NDMP etc.</p>
1.1.2	<p>1. Offered Storage shall have minimum of 4 host ports for connectivity to servers running at 16Gbps speed.</p> <p>2. Offered storage shall also support additional Quad 10Gbps IP ports or 8 x 1Gbps IP ports for file services operations.</p> <p>3. Offered storage shall have two additional IP ports for the the storage based replication.</p> <p>4. Offered storage shall have 16 number of SAS Back-end lanes running at 12Gbps speed..</p>
1.1.3	<p>1. offered Storage Array shall support distributed Global hot Spare for offered Disk drives.</p> <p>2. Global hot spare shall be configure as per industry practice.</p>

1.1.4	<ol style="list-style-type: none"> 1. Shall have capability to use more than 30 drives per array group or raid group for better performance. 2. Storage shall be provided with Performance Management Software. 3. Offered storage array shall support quality of service for critical applications so that appropriate and required response time can be defined for application logical units at storage. It shall be possible to define different service / response time for different application logical units. 4. Quality of service engine shall allow to define minimum and maximum cap for required IOPS / bandwidth for a given logical units of application running at storage array. 5. It shall be possible to change the quality of service Response time, IOPS, bandwidth specification on basis of real time.
1.1.5	Offered storage shall support online non-disruptive firmware upgrade for both Controller and disk drives.
1.1.6	<ol style="list-style-type: none"> 1. Offered Storage shall have support to make the snapshot and full copy (Clone) on the thin volumes if original volume is created on thick or vice- versa. 2. The storage array should have support for both controller-based as well as file system based snapshots functionality (At-least 1024 copies for a given volume or a file store). 3. Storage array shall have functionality to re-claim the space from Thin Provisioned Deleted snapshot automatically. Vendors shall provision at-least 20% additional space over and above the actual requirements, if space re- claim from thin provisioned deleted snapshot is not possible automatically.
1.1.7	<ol style="list-style-type: none"> 1. For file services operations, offered storage shall support both user level as well as file level hard and soft quota. 2. For file services operations, offered storage shall support integration with industry leading antivirus vendors like Symantec and MacAfee.
1.1.8	<ol style="list-style-type: none"> 1. Vendor shall provide Storage Array configuration and Management software. 2. Software shall be able to manage more than one array of same family.
1.1.9	<ol style="list-style-type: none"> 1. Offered storage shall support dynamic migration of Volume from one Raid set to another set while keeping the application online. 2. For effective data tiering, Storage subsystem shall support automatically Policy based Sub-Lun Data Migration from one Set of drive Tier to another set of drive tier.
1.1.10	<ol style="list-style-type: none"> 1. The storage array should support hardware based data replication at the array controller level across all models of the offered family. 2. The Storage array shall also support three ways (3 Data Centers) replication to ensure zero RPO in native fashion without using any additional replication appliance. 3. Replication shall support incremental replication after resumption from Link Failure or failback situations.

Item 8: Disk to Disk Back up (Qty 1)

Sl. No.	Specifications
1.0.1	Offered Disk to disk backup device shall be Modular design to allow configuration, add capacity increase performance
1.0.2	Offered device shall be offered with Minimum of 24TB of raw space scalable to more than 150TB
1.0.3	Offered device shall be protected with hardware RAID 6 from the factory so that no raid configuration is required in field
1.0.4	Offered device shall support emulation of both VTL and NAS target (CIFS / NFS access)
1.0.5	Offered device shall have the ability to configure at-least combination of 20 tape Libraries & NAS targets along with 20,000 or more Cartridge slots in the single appliance
1.0.6	Offered device shall have capability to deliver selective restore from disk Library itself

1.0.7	Offered device shall have integrated de-duplication license and shall have optional support for replication to remote location in a low bandwidth mode so that only unique – Non Duplicated data flows to remote location
1.0.8	Offered device shall support intelligence to understand Source based (At Client application level, Backup Server level and media server level) de-duplication so that only unique – Non duplicated data copies to offered device
1.0.9	Offered device shall support receiving non duplicated data from remote locations or branch office directly from the application servers / Client servers in low bandwidth mode without using any backup or replication based device at remote location / Branch office.
1.0.10	Ability to flexibly emulate tape drive/ tape formats LTO-Gen4, LTO-Gen5, and LTO- Gen6 etc.
1.0.11	Offered device shall have Minimum of 2 x 8Gbps Fibre Channel connections and minimum of 2 x 10Gbps iSCSI connection.
1.0.12	Offered disk based backup device shall also support encryption functionality.
1.0.13	Offered disk based backup appliance shall have flexibility to enable or disable the de-duplication for a given virtual tape library or NFS / CIFS share.
1.0.14	Offered disk based backup appliance shall support VLAN tagging. Offered IP ports shall also support Port bonding in Adaptive Load balancing, LACP and as well as in Active-backup mode
1.0.15	Offered device shall support rated write performance of at-least 5TB per hour and when enabled with source level de-duplication, shall have rated performance of at- least 14TB/hr

Item 9: Tape Library (Qty 2)

Sl. No.	Specifications
1.0.1	1. Shall support Native data capacity of 120TB (uncompressed) expandable to 300TB (2.5:1 compressed). 2. Shall be offered with Minimum of Four LTO6 FC tape drive. Drive shall support encryption 3. Shall be offered with 48 Cartridge slots.
1.0.2	Offered LTO6 drive in the Library shall conform to the Continuous and Data rate matching technique for higher reliability.
1.0.3	Offered LTO6 drive shall support 160MB/sec in Native mode and 400MB/sec in 2.5:1 Compressed mode.
1.0.4	Tape Library shall be scalable to four number of LTO-5 drives within the same frame.
1.0.5	Offered Tape Library shall provide 8Gbps native FC connectivity to SAN switches.
1.0.6	Offered Tape Library shall have at-least two partition support so that drives can be configured in a partition with dedicated slots.
1.0.7	Tape Library shall provide web based remote management.
1.0.8	Tape library shall support Barcode reader and mail slot.
1.1.9	1. Tape Library shall have GUI Panel 2. Shall be rack mountable. 3. Shall have option for redundant power supply 4. Tape Library shall be supplied with software which can predict and prevent failures through early warning and shall also suggest the required service action 5. Offered Software shall also have the capability to determine when to retire the tape cartridges and what compression ratio is being achieved

Item 10: SAN Switches (Qty 2 Nos)

Sl. No.	Specifications
1	<u>Architecture</u>
1.1	Shall be Rack Mountable
1.2	Shall have dual, hot-swappable power supplies
1.3	Shall have dual, fan tray slots which shall support front-to-back and back-to-front airflows
1.4	The switch should be Fibre Channel based. Should have minimum of 24 ports scalable to minimum of 48 FC ports. Should support port speeds of 4/8/16 Gbps Any licenses to enable the ports shall be provided from Day 1
1.5	Should support incremental activation of ports on demand and following minimum types of ports Diagnostic Port (D_Port), E_Port, EX_Port, F_Port, M_Port (Mirror Port); self-discovery based on switch type (U_Port); NPIV-enabled N_Port
1.6	Should support the following minimum media types or more: SFP+ , LC Connector, SWL Connector, LWL Connector, ELWL Connector.
1.7	1 RJ-45 serial console port and 1 RJ-45 out-of-band management port
1.8	Switch should support non-disruptive code / Firmware upgrades
1.9	MAC address table size of minimum 128000 entries
1.10	Must support the offered SAN box and other leading SAN boxes and tape libraries including but not limited to EMC, Hitachi, IBM, HP, Oracle etc.
1.11	The Switch should have capability to interface with HBA of different makes and model from multiple OEM, supporting multiple operating systems including but not limited to HP-UX, IBM AIX, Red Hat Linux, MS-Windows, Solaris etc.
1.12	Unicast, multicast (255 groups), and broadcast data traffic types should be supported.
1.13	The SAN Switch should have capability to interface with HBA of different makes and model from multiple OEM, supporting multiple operating systems including but not limited to HP-UX, IBM AIX, Red Hat Linux, MS-Windows, Solaris etc.
1.14	Access Control Lists for filtering traffic to prevent unauthorized users from accessing the network..
1.15	Configuration through secure command-line interface (CLI) over Telnet and SSH
1.16	Shall support OpenFlow protocol capability to enable software-defined networking (SDN) from Day 1
1.17	Shall provide ROHS Compliance
1.18	Shall be capable of supporting both AC and DC Power inputs
1.19	Operating temperature of 0°C to 45°C
1.20	Safety and Emission standards including UL 60950-1; IEC 60950-1; VCCI Class A; EN 55022 Class A

Item 11: 42U Rack – (Qty 3 Nos)

Sl. No.	Specifications
1	Industry standard 42 U rack should be proposed with front and rear perforated doors for better airflow
2	The rack shall have 800 x 1200mm depth

3	Each rack should be proposed with required Power Distribution Unit modules for the proposed systems. PDU in each rack should be SNMP enabled metered with Zero U mounting, Current drawn 32A, Output Voltage 230V. It should be possible to be mounted vertically inside the server racks. Each rack should be able to house systems up to 8KVA of power consumption. Also each rack shall have .
4	Environmental Monitoring device Unit to Monitor temperature and humidity temperature and Humidity monitoring probes shall have SNMP capability (Get / Set) and made available on TCP/IP. for each rack

Item 12: KVM Switch (Qty 1 No)

Sl. No.	Specifications
1	Minimum 16 Port KVM Console Switch with required cable sets to connect the Servers

Item 13: Rack Monitor (Qty 1 No)

Sl. No.	Specifications
1	Minimum: 18.5" Rack Monitor (from the make of Server OEM)

Item 14: Data Center UPS (Qty 1 No)

Sl. No.	Specifications
1	<p>2 No's x Minimum 120 KVA/108KW Double Conversion True Online UPS operating in Parallel Redundant Mode with the independent battery banks for both UPS for 30 Minutes backup Time using SMF Batteries.</p> <p>UPS Input Voltage : Three Phase - 4 Wire (380 / 415 Selectable),</p> <p>UPS Input Frequency : Minimum: 47 Hz - 53 Hz</p> <p>UPS Output Voltage : Minimum Three Phase - 4 Wire (380 / 415 Selectable)</p> <p>UPS Voltage Regulation : + 1 %</p> <p>UPS T.H.D : Less Than 2 %</p> <p>UPS Load Regulation : Load Change < 20 ms Response Time</p> <p>UPS Input Power Factor > 0.95</p> <p>UPS Overload : 150 % for 1 Minute % 125 % for 10 Minutes</p> <p>UPS Bypass : Automatic on Overload or UPS failure</p> <p>UPS Output Power Factor : 0.8</p> <p>UPS Batteries : VRLA - Sealed Maintenance Free Batteries only to be used</p> <p>Power Distribution Unit (Qty 1): The Data Centre Distribution features a space saving design, with Input / Output switches along with snap-on type distribution miniature circuit breakers inbuilt / external in ups frame with Three Phase Input & Single Phase Output.</p>

Item 15: Split ACs (Qty 10 No)

Sl. No.	Specifications
1	Minimum: 2 Ton Split Air Conditioners with all Wall mount accessories

Item 16: False flooring for 64 square meter (688sqft)

SI No	<u>Specifications</u>
1	<u>False flooring for 64 square meter.(688sqft)</u>
	Providing & fixing raised access floor (200mm to 450mm high). The panel of size 604mmx604mm is finished with 1.5mm thk laminate laid on hemispherical cementitious base panels of overall depth 37mm, solvent free epoxy edge with 0.6mm PVC edge trims & floor shall have an UDL of 1080 Kg/Sq.m & point load of 360 Kg. Panels are fitted with steel pedestals, anti vibration head cap, other requisite accessories and electrical conductor plate for dissipation of static electricity, the steel base shall be fixed on to the sub floor with epoxy adhesive or fastener as required to support access panels

Item 17: Software for Servers

17.1	Windows Server Std 2012 R2 Singl OLPx64 bit AE	4	Nos
17.2	MS office 2013 or 2016 which ever latest	50	Nos
17.3	Symantec, Norton, eTrust, McAfee or any antivirus for Server for Windows and Linux	10	Nos

SECTION V - COMMERCIAL

1. PRICE SCHEDULE

Sl no	Description	Quantity		Rate(INR/USD)	Amount
		(X)	Nos		
				(A)	(Y=A*X)
1	Blade Enclosure / Chassis	2	Nos		
2	Blade Server	5	Nos		
3	Rack Servers	4	Nos		
4	Server Management Software	1	No		
5	Server Access Switch	2	Nos		
6	Server Management Switch	2	Nos		
7	SAN Storage	1	No		
8	Disk to Disk Back Up	1	No		
9	Tape Library	2	No		
10	SAN Switches	2	No		
11	Each 42U Rack with required accessories as per specification.	3	No		
12	16 Port KVM Console Switch with required Cables	1	No		
13	Minimum 18.5 Rack Monitor with track pad	1	Nos		
14	UPS: Data Center UPS shall be comprised of 2 number x Minimum 120 KVA/108KW UPS with Power Distribution Unit as per Specification.	1	No		
15	Minimum 2 Ton Split AC (any make)	10	Nos		
16	False Flooring 8*8 Mtrs	64	Sqrmtrs		
17.1	Windows Server Std 2012 R2 Singl OLPx64 bit AE	4	Nos		
17.2	MS office 2013 or 2016 which ever latest version	50	Nos		
18	Symantec, Nortan, eTrust, McAfee or any antivirus for Server windows, Linux	10	Nos		
		Sub Total (In INR)			
		Discount (in INR)			
		Grand Total (in INR)			

Total Amount (In Words) : _____

Note

1. Do not quote optional items against the requirement mentioned in this tender.
2. The price quoted above should not be inclusive of any taxes/levies. Taxes/levies if any must be mentioned separately along with the price bid. IIIT-Bangalore shall reimburse for these taxes/levies based on submission of relevant documents including registration certificates at each payment stage.
3. Discount (if any) to be offered should be mentioned against in the respective cell provided above. In case it is mentioned elsewhere it will not be considered for the purpose of price comparison.
4. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
5. The bidder must quote for all the items mentioned under Section IV – Schedule of Requirement. The lowest price criteria shall be applied on the total composite amount of all items taken together.

2. PERFORMA OF BANK GUARANTEE TOWARDS EMD

(on non-judicial paper of appropriate value)

Bank Guarantee No. -----

Dated:

To
The Registrar,
IIIT Bangalore

Dear Sir(s),

Whereas the IIIT Bangalore having its office at Bangalore (hereinafter called the IIITB) which expression shall, unless repugnant to the context or the meaning thereof, include all its successors, administrators, executors and assignees has on behalf of the President of India invited tender No. ----- and M/s -----

----- having Registered/head office at -----
----- (Hereinafter called the "bidder" which expression shall, unless

repugnant to the context or the meaning thereof, mean and include all its successors, administrators executors and assignees) have submitted a Proposal Reference No. ----- and bidder having agree to furnish as a conditions precedent for participation in tender as unconditional and irrevocable bank guarantee of Rs-----

----- (Rupees ----- Only) for the due performance of bidder's obligations as contained in the tender document specially the conditions that (a) bidder shall keep his Proposal open for a period of day i.e. from ----- to ----- or any extension thereof, and shall not withdraw or modify it in a manner not acceptable to the IIITB (b) the bidder will execute the contract, if awarded, and shall furnish performance guarantee in the format prescribed by the IIITB within the required time. The bidder has absolutely and unconditionally accepted these conditions. The IIITB and the bidder have agreed that Proposal submitted by the bidder is an offer made on the condition that the Proposal, if submitted would be kept open in its original form without variation or modification in a manner not acceptable to the IIITB for a period of ---

-----days i.e. from ----- to ----- or any, extension thereof and that submission of the Proposal itself shall be regarded as an unconditional and absolute acceptance of the conditions, contained in the tender document. They have further agreed that the contract consisting of tender document and submission of the Proposal as the ACCEPTANCE shall be a separate contract distinct from the contract which will come into existence when the Proposal is finally accepted by the IIITB. The consideration for this separate initial contract preceding the main contract is that the IIITB is not agreeable to sell the tender documents to the bidder and to consider the Proposal to be made except on the condition that the Proposal shall be kept open for the period indicated above and the bidder desires to submit a Proposal on this condition after entering into this separate initial contract with the IIITB promises to consider the Proposal on this condition and bidder agrees to keep this proposal open for the required period. These reciprocal promises form the CONSIDERATION for this separate initial contract between the parties.

2. Therefore, we ----- registered (indicate the name of Bank) under law of ----- having head / registered office at (here in after reference to as "Bank") which expression shall, unless repugnant to the context or meaning thereof, include all its successors, administrators and executors hereby issue irrevocable and unconditional bank guarantee and undertake to pay immediately on first demand in writing Rupees all money to the extent of Rs----- (Rupees----- only) at any time immediately on such demand without any demur, reservations, recourse, contest or protest and/ or without any reference to the bidder and any such demand made by the IIITB on the bank shall be conclusive and binding notwithstanding any difference between the IIITB and the bidder or any dispute pending before any court/arbitrator or any other matter whatsoever. We also agree to give that Guarantee herein the IIITB in writing. This guarantee shall not be determined/discharged/affected by the liquidation, winding up, dissolution or insolvency of the bidder and will remain valid, binding and operative against the bank.

3. The bank also undertakes that the IIITB at the option shall be entitled to enforce this guarantee, against the Bank as a principal debtor, in the first instance, without proceeding against the bidder.

4. The bank further agree that as between the bank and the IIITB, purpose of the guarantee, any notice of the breach of the terms and conditions contained in the tender Documents as referred above given to the bank by the IIITB shall be conclusive and binding on Bank, without any proof, notwithstanding any other matter or

difference or dispute whatsoever. We further agree that this guarantee shall not be *affected* by any change in our constitution, in the constitution of the IIITB or that of the bidder. We also undertake not to revoke, in any case, this

Guarantee during its currency.

5. The bank agree with the IITB that the IITB shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms of the tender or get extension of the validity period from time to time. We shall not be relieved from our liability by reason of any such variation or extension of the validity period or for any forbearance, act of omission and commission on the part of the IITB or any indulgence shown by the IITB to the said bidder or by any such matter or thing whatsoever which under the law relating to sureties, would, but for this provision, have the effect of so relieving us.

6. Notwithstanding anything contained here in above our liability under his Guarantee is limited to Rs. -----
----- (Rupees ----- only) in aggregate and it shall remain in full force up to ----- (225 days from the date of bid opening) unless extended further from time to time, for such period as may be instructed in writing by M/s----- on whose behalf this guarantee has been given, in which case, it shall remain in full force up to the expiry of extended period. Any claim under this guarantee must be received by us before ----- (date of expiry of validity period) or before the expiry of extended period, if any. If no such claim is received by us within the said date/extended date, the rights of the IITB under this guarantee will cease. However, if such a claim has been received by us within and up to the said date/extended date, all right of the IITB under this guarantee shall be valid and shall not cease until we have satisfied that claim.

7. In case contract is awarded to the Bidder here in after referred to as "Contractor" the validity of this Bank Guarantee will stand automatically extended until the bidder furnished to the IITB a bank guarantee for requisite amount towards performance guarantee for satisfactory performance of the contract. In case of failure to furnish performance bank Guarantee in the format prescribed by the IITB by the required date the claim must be submitted to us within validity period or extended period, if any. If no such claim has been received by us within the said date /extended date, rights, of the IITB under this guarantee will cease. However if such a claim has been received by us within the said date/extended date all rights of the IITB under this guarantee shall be valid and shall not cease until we have satisfied that claim, In witness where of the Bank, through its authorized officer, has sent its hand & stamp on this -----day of at _____ of-----at-----
- of----- (month & year).

Signature
(Full name in capital letters)
Designation with bank
stamp

Witness No.1
Signature
(Full name and address in capital letters)

Witness No.2
Signature
(Full name and address in capital letters)

Attorney as per power of attorney
No -----
Date -----

3. PERFORMA OF PERFORMANCE BANK GUARANTEE

(on non-judicial paper of appropriate value)

Dated:

To,

The Registrar,

IIIT Bangalore

BANKS GUARANTEE NO:

Dear Sir(s),

In consideration of the IIIT Bangalore (hereinafter called "IIITB") having offered to accept the terms and conditions of the proposed agreement betweenand (hereinafter called "the said contractor(s)" for the work (hereinafter called "the said agreement") having agreed to production of an irrevocable Bank Guarantee for Rs.....(Rupees.....only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement. 1.

We (hereinafter referred to as the "Bank") hereby undertake to (indicate the name of the Bank) pay to the IIITB an amount not exceeding Rs.....

(Rupees.....only) on demand by the IIITB.

2. We(indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this Guarantee without any demur, merely on a demand from the IIITB stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs.....(Rupees.....only).

3. We, the said Bank, further undertake to pay to the IIITB any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any Court or Tribunal relating thereto, our liability under this present being absolute and unequivocal. The payment so made by us under this bond shall be a valid discharge of our liability for payment there under, and the contractor(s) shall have no claim against us for making such payment.

4. We (indicate the name of the Bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement, and it shall continue to be enforceable till all the dues of the IIITB under or by virtue of the said agreement have been fully paid, and its claims satisfied or discharged, or till the representative of IIITB, on behalf of the Government, certifies that the terms and conditions of the said agreement have been fully and properly carried out by the said contractor(s), and accordingly discharges this guarantee.

5. We(indicate the name of the Bank) further agree with the IIITB that it shall have the fullest liberty without our consent, and without effecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by IIITB against the said contractor(s), and to forbear or enforce any of the terms and conditions relating to the said agreement, and we shall not be relieved from our liability by reason of any such variation or extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the IIITB or any indulgence by the IIITB to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

6. This Guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).

7. Welastly undertake not to revoke this Guarantee except with (indicate the name of the Bank) the previous consent of the IIITB in writing.

8. This Guarantee shall be valid up tounless extended on demand by the IIITB. Notwithstanding anything mentioned above, our liability against this Guarantee is restricted to Rs (Rupeesonly), and unless a claim in writing is lodged with us within six months of the date of expiry or extended date of expiry of this Guarantee all our liabilities under this Guarantee shall stand discharged.

Dated theday of..... For

Granted by the Bank

Yours faithfully....

4. MANUFACTURER AUTHORISATION FORMAT

(On manufacturer's letterhead)

Date:

To,
The Registrar,
IIIT Bangalore

Subject: Manufacturer authorisation towards tender no. _____ for Supply, Installation, Testing, Commissioning(SITC) and onsite support for DATA centre of MIIT project, Mandalay, Myanmar.

Dear Sir,

We, M/s _____ (*Name of the manufacturer*) having registered office at _____ (*address of the manufacturer*) by virtue of being manufacturer for _____ (*Name of the product/s*), hereby authorise M/s _____ (*Name of the bidder*) having their office at _____ (*Address of bidder*) to submit quote, negotiate, supply, install and provide after sales support for our range of products quoted by them to meet the above mentioned tender requirements.

M/s _____ (*Name of the manufacturer*) within the scope of requirement as per the tender mentioned above through its authorised partner M/s _____ (*Name of the bidder*) shall provide support & product warranty services for a minimum period of Two years from the date of installation and commissioning.

The undersigned is authorised to issue such authorisation on behalf of M/s _____ (*Name of the manufacturer*).

For M/s _____ (*Name of the manufacturer*)

Signature & company seal

Name

Designation

Email

Mobile No.

5. Undertaking of Authenticity

Sub: Supply of IT Hardware/Software -- Desktops and Servers
Ref: 1. Your Purchase Order No. -----dated-----.
2. Our invoice no/Quotation no. -----dated-----.

With reference to the Desktops and Servers being supplied /quoted to you vide our invoice no/quotation no/order no. Cited above,----

We hereby undertake that all the components/parts/assembly/software used in the Desktops and Servers under the above like Hard disk, Monitors, Memory etc shall be original new components/parts/ assembly /software only, from respective OEMs of the products and that no refurbished/duplicate/ second hand components/parts/ assembly / software are being used or shall be used.

We also undertake that in respect of licensed operating system if asked for by you in the purchase order, the same shall be supplied along with the authorised license certificate (eg Product Keys on Certification of Authenticity in case of Microsoft Windows Operating System) and also that it shall be sourced from the authorised source (eg Authorised Microsoft Channel in case of Microsoft Operating System).

Should you require, we hereby undertake to produce the certificate from our OEM supplier in support of above undertaking at the time of delivery/installation. It will be our responsibility to produce such letters from our OEM supplier's at the time of delivery or within a reasonable time.

In case of default and we are unable to comply with above at the time of delivery or during installation, for the IT Hardware/Software already billed, we agree to take back the Desktops and Servers without demur, if already supplied and return the money if any paid to us by you in this regard.

We (system OEM name) also take full responsibility of both Parts & Service SLA as per the content even if there is any defect by our authorized Service Centre/ Reseller/SI etc.

Authorised Signatory

Name:

Designation

Place

Date