

**NATIONAL INSTITUTE OF SECURITIES
MARKETS
ICT DEPARTMENT**

**REQUEST FOR PROPOSALS
FOR
HOSTING PLATFORM AT NISM CAMPUS, PATALGANGA
(Document Reference No: NISM/ICT/RFP/07/2015-16)**

**NISM Bhavan,
Plot No. : 82,
Sector - 17, Vashi,
NaviMumbai: 400703
Tel: 022-66735100-05,
Fax: 022-66735110
Web:www.nism.ac.in**

1. INTRODUCTION

National Institute of Securities Markets (NISM) is a public trust established by Securities and Exchange Board of India (SEBI) with the objective of enhancing the quality of securities market in the country through knowledge-based interventions. The institute therefore conducts a number of educational programs for Securities Market professionals and also various financial literacy initiatives for investors from all walks of life.

National Institute of Securities Markets is currently building a campus on 70 Acres land at Patalganga, a location around 40 kilometres away from Vashi on Mumbai-Pune highway. The campus will have a number of facilities i.e. Orientation Block (with ground plus first floor), Academic Blocks (four blocks with interconnecting corridor and each block with ground and first floor), Student Blocks (Four blocks with each block having ground plus seven floors), an Amphi-Theatre, an Auditorium, a Recreation Block (Ground plus first floor) and Residential Blocks.

This Request for Proposal (RFP) is for setting up hosting platform at the data centre at the NISM campus which includes Servers, SAN, Backup Storage Device and Manageable UPS. The scope also includes on-site support service to be rendered by competent resources.

2. SUBMISSION OF PROPOSAL

The proposals must be prepared covering the following information and submitted to NISM at the address contained herein on or before the closing date specified in Section-9 of this document. Please refer the checklist given in Section 2.2 to ensure that submissions have all required documents.

2.1 Proposal Submission Instructions

The proposal will be submitted in three separate sealed envelopes strictly following the instructions given below:

- i. The first sealed envelope will contain the EMD as listed in Section-2.2 and the envelope will be super scribed as “EMD for Hosting Platform at NISM Campus, Patalganga (Document Reference No. : NISM/ICT/RFP/07/2015-16)”.
- ii. The second sealed envelope will contain documents as listed in Section-2.2 confirming “Eligibility” of the bidder and the envelope will be super scribed as “Eligibility to bid for Hosting Platform at NISM Campus, Patalganga (Document Reference No. : NISM/ICT/RFP/07/2015-16)”.

- iii. The third sealed envelope will contain the Price Bidas stated in Section-2.2 and the envelope will be super scribed as “Price Bid for Hosting Platform at NISM Campus, Patalganga (Document Reference No. : NISM/ICT/RFP/07/2015-16)”.
- iv. The three separate sealed envelopes should be put together in another sealed main envelope super scribing it as “Proposal for Hosting Platform at NISM Campus, Patalganga (Document Reference No. : NISM/ICT/RFP/07/2015-16)”.
- v. The first and the second envelope mentioned above must not contain any documents showing the bid price of the proposed products and services. If bid price figures are mentioned in any of the documents enclosed in envelope one or two, the proposal will be disqualified and will not be evaluated. The Price Bid will be enclosed only in Envelope-3 as mentioned Section 2.1 (iii).
- vi. The Price Bid must be unconditional. Condition if any should be indicated in eligibility proposal only.

2.2 Checklist of Proposal Content

The bidders are advised to carefully take note of the following table to ensure proper submission of proposal complete in all respects.

#	Checklist of Proposal Content
Envelope-1	
1	EMD with cover letter Note: The bidder must write the name of the company and the RFP Document reference Number at the back of EMD Demand Draft/ Bankers Cheque/ Pay Order.
Envelope-2	
1	Company profile in the format as given in Annexure - A
2	Letter of compliance with RFP terms and conditions in a format as stated in Annexure-B
3	Letter from OEM confirming partnership/ dealership as per the format given in Annexure- C (this is required for key items i.e. servers, SAN and backup storage solution). If more than one OEM is involved in the proposed solution, then the said letter must be submitted from each of the OEMs’
4	Confirmation of “Scope of Work” in the format as mentioned in Annexure-D
5	Letter of Commitment to Project Schedule as per Annexure - E
6	Statement of Commitment to supply additional quantities at original Bid Price as given in Annexure - F
7	CV of proposed Onsite Support Resource as given in Annexure - G
8	Copies of Purchase orders and completion certificates confirming “Experience” as mentioned in Section 6.1 on eligibility Criteria

9	Audited Balance sheets with profit and loss account statements confirming "Company Turnover" as mentioned in Section 6.2 on eligibility Criteria
10	Letter of incorporation of the company or the lead company of the consortium responding to the RFP.
Envelope-3	
1	Price bid in the format as given in Annexure -H

2.3 Earnest Money Deposit (EMD)

- Suppliers are required to provide an EMD of Rs. 2,00,000/- (Rupees Two Lakhs only) by Demand Draft/Bankers Cheque/Pay Order drawn on any bank in Mumbai in favor of "National Institute of Securities Markets". The EMD must be valid for a minimum period of 3 months. Cheques for EMD will not be accepted and bids accompanying cheques or without EMD will stand rejected.
- The bidder must write the name of the company and the RFP Document reference Number at the back of EMD Demand Draft/Bankers Cheque/Pay Order.
- The EMD will be placed in envelope-1 and submitted to NISM as indicated in Section-2.1.
- The EMD will be released to the unsuccessful bidders without interest soon after the tender is awarded.
- The EMD shall stand absolutely forfeited if the bidder revokes his bid during the period he is required to keep his bid open for acceptance by the institute.
- The EMD will not bear any interest.
- **Bids not accompanied by EMD will be rejected.**
- The EMD of the successful bidder will be released soon after receipt of the Performance Bank Guarantee in accordance with the condition stated in Section 7.

2.4 Other Terms and Conditions

- Please note that Suppliers must quote for all items. If the supplier does not quote for all items, the bid shall be disqualified.
- The suppliers are advised to study all technical and commercial aspects, instructions, forms, terms and specifications in the RFP carefully. Failure to furnish all information required in the bid or submission of a bid not substantially responsive to the RFP in every respect will be at the supplier's risk and may result in rejection of the bid.
- The bids not submitted in the prescribed format or incomplete in any manner are likely to be rejected.
- NISM is not responsible for non-receipt of proposals within the specified due date due to any reason including postal delay or holidays.

- The equipment/products quoted should not be from the discontinued production line. In case of discontinuation of production line after the issue of the purchase order, the supplier will supply the next higher configuration at the bid price on the same terms and conditions.
- The prices quoted shall be in Indian Rupees only.
- Submission will be valid only if
 - ✓ It is received on or before the closing date and time as stated in Section-9 of this document.
 - ✓ The submission is not by Fax or Email.
- Only one response to this RFP from each bidder will be permitted. In case of partnerships / consortium, only one submission is permitted through the lead bidder.
- All expenses incurred towards the preparation and submission of proposal by the bidder shall be entirely borne by the bidder.
- NISM reserves the right to reduce or increase the scope of this RFP or cancel this RFP without stating any reasons whatsoever.
- NISM reserves the right to accept or reject any proposal and to annul the bidding process and reject all proposals at any time prior to award of the contract/purchase order, without thereby incurring any liability towards the affected supplier(s) or any obligation to inform the affected supplier(s) of the grounds for NISM's action.
- In the event of NISM requiring additional quantities of any of the items stated in "Annexure - F" within 12 months from project sign off (in accordance with NISM's Project Sign Off process), the selected bidder will be required to supply the additional quantity at the same price as quoted in the proposal submitted in response to this RFP. However, the additional quantity of any of the equipment to be supplied will be restricted to a maximum of the quantities stated in this RFP.
- Quantity of any of the item stated in this RFP may vary in the Purchase Order. NISM reserves the right to reduce or increase the quantity of an item or even completely remove an item while issuing the Purchase Order.

2.5 Contact Details

a) The Proposals must be submitted in the sealed envelopes as mentioned above to the following officer:

Mr. Narayana Maddala
Senior Vice President,
National Institute of Securities Markets,
5th Floor, NISM Bhavan, Plot No. 82,
Sector - 17, Vashi, Navi Mumbai - 400 703.

- b) For any clarifications/queries contact the following person:
 Mr. Nikhil Kumar,
 Assistant Manager -IT,
 National Institute of Securities Markets,
 6th Floor, NISM Bhavan, Plot No. 82,
 Sector - 17, Vashi, Navi Mumbai - 400 703.
 Email: campushp@nism.ac.in, Contact Tel.: 022-66735167.

3. SCOPE OF WORK

The supplier is required to supply, install, configure and test the items mentioned in this section. The integrated solution must be thoroughly tested. The supplier shall also provide documentation as required by NISM and provide post installation on-site support service. The entire scope of work must be completed in all respects and made usable as per NISM requirements. The comprehensive scope of work is as follows:

3.1. Delivery Items

Suppliers are requested to quote for either Option-1, Option-2 or both

Option-1 (Blade Servers)

#	Product Code	Item	Brand	Qty
1.	BL_SVR	Blade Server	Dell/HP/Lenovo	2
2.	SAN	Storage Area Network	HP, DELL, EMC, IBM	1
3.	CHA	Chassis	Dell/HP/Lenovo	1
4.	BASTR	Backup Storage	HP, DELL, IBM, EMC	1
5.	MUPS	Manageable UPS	Eaton/ APC/ Emerson	1
6.	VM	VMWare	VMware	1
7.	OSWIN1	Operating System (With 4 additional guest license)	Microsoft	2
8.	SQL	SQL Server (With 5 additional CALs)	Microsoft	6
9.	ANTSW	Anti-Virus	Mcafee, Symantec	300
10.	TRAINING	Training	-	1
11.	EXT WARRANTY	Extended Warranty	-	1
12.	Onsite	Onsite Support Service	-	1
13.	SERVER_RACK	Server Rack	APW President, APC, Walrack	2

Option-2 (Rack Servers)

#	Product Code	Item	Brand	Qty
1.	RK_SVR	Rack Server	Dell/HP/Lenovo	2
2.	SAN	Storage Area Network	HP, DELL, EMC, IBM	1
3.	BASTR	Back up Device	HP, DELL, EMC, IBM	1
4.	MUPS	Manageable UPS	Eaton/ APC/ Emerson	1
5.	VM	VMware	VMware	1
6.	OSWIN1	Operating System (With 4 additional Guest license)	Microsoft	2
7.	SQL	SQL Server (With 5 additional CALs)	Microsoft	6
8.	FCSW	FC Switch	HP, Cisco, Dell, Brocade	1
9.	KVM	KVM Switch	Aten , D-link	2
10.	CPUM	CPU Module	Aten , D-link	4
11.	ANTSW	Antivirus	Mcafee, Symantec	300
12.	TRAINING	Training	-	1
13.	EXT WARRANTY	Extended Warranty	-	1
14.	Onsite	Onsite Support Service	-	1
15.	SERVER_RACK	Server Rack	APW President, APC, Walrack	2

3.2. Services

3.2.1 Delivery, Installation, Configuration and Testing

The supplier will deliver all material mentioned in Section -3.1. Supplier will install and configure all devices. Also, supplier will provide a comprehensive walk through the key features of the Servers, SAN monitoring, Manageable UPS and Backup System.

3.3. Labeling Work

Labeling will be done strictly as per NISM standards and the material used for labels will be as per NISM's requirement. Permanent markers (black color) will be used to write labels or the labels will be printed in black color. Dressing and Labelling of all the devices, cables and rack/chassis will be as per NISM standards.

3.4. Training Service

3.4.1. Training Plan

The Supplier will develop a comprehensive training plan in consultation with NISM covering schedule, content, venue and various resources required prior to commencement of training.

3.4.2. Training Areas

The supplier will deliver training in the areas mentioned below. Amongst various other aspects, the training must cover configuration and monitoring of the concerned devices/software.

- a) VMware
- b) Backup Device – configuring backup policies and monitoring

3.4.3. Trainer

Certified professionals in the concerned areas (VMware, Backup devices etc.) with adequate monitoring and configuration experience on the devices mentioned in the technical proposal.

3.4.4. Training

The Supplier will deliver very comprehensive training to five officers in the areas mentioned in Section 3.4.2. The depth of the training must be adequate to write appropriate certification exams of respective functional areas (VMware administration, configuration etc.) offered by concerned OEMs. The training will be held Onsite. Supplier will arrange necessary hardware and software to deliver training on the topics mentioned in Section 3.4.2. The training will not be held on live Servers/Devices/Software of NISM. Amongst various other topics, the training must cover the following areas:

- Introduction to VMware vSphere with operations management and vCenter
- Installing virtual machines
- Configuring virtual machines
- Optimization of the virtual machines for optimal usage of resources
- Ensuring high availability of the resources

3.4.5. Training Material

The Supplier will deliver adequate number of hard copies and soft copies of the following training material for each of the areas mentioned in Section 3.4.2:

- a) Lecture Notes, Powerpoint presentations and Exercises
- b) Books (relevant for writing appropriate certification exams as mentioned in Section 3.4.4).

3.5. Project Management Services

The Supplier will appoint a suitably qualified and experienced Project Coordinator immediately after issuance of Purchase Order and He/She should be available till the Project Sign Off. Supplier should provide an escalation matrix up to a minimum of 3 levels above Project Coordinator, including Managing Director/CEO of the company. Amongst various other terms of reference, the following are key responsibilities of the project coordinator:

- Shall be a single point of contact.
- Shall organize extensive planning meeting within 2 days of issuance of purchase order to draw a comprehensive project plan
- Shall be required to be easily available on phone as and when needed
- Must frequently visit Data Centre at Patalganga as needed to examine the provisions being made as per hosting platform and supervise work in progress
- Must attend weekly review meetings and any other ad-hoc project meetings at NISM from the inception till the project sign off
- Shall coordinate effectively within his team, contractors/ sub-contractors and OEMs to deliver entire Scope of work within the schedule.

3.6. Documentation

The supplier will provide the following documentation. The content and format of the documentation will be discussed and agreed with NISM prior to development/delivery of the documentation.

- a) Comprehensive configuration of all devices mentioned in Section 3.1.
- b) Manuals of all devices (hard and/or soft copies).
- c) Back up policy and procedure for various devices.
- d) Monitoring Manual: This is a comprehensive document on what needs to be monitored on a daily basis (or at specified intervals) and how the records to be maintained.

3.7. Acceptance Testing

NISM will carry out the "Acceptance Testing" with the assistance of the Supplier. A comprehensive test plan will be prepared by the Supplier in consultation with NISM prior to commencement of testing. The test plan will cover performance and integration aspects comprehensively amongst other aspects.

3.8. Onsite Technical Support Service

The Supplier will comply with the requirements mentioned in subsequent sections regarding Onsite support services.

3.8.1. Onsite Resource qualification and experience

a) Number of Onsite Resources

One resource is required for Onsite Technical Support Services.

b) Qualification

The resource must hold Bachelor degree in Science (Physics, Chemistry, Maths)/ Information Technology/Computer Science/Computer Applications or a B.Tech./B.E. degree holder in Computer Science/Information Technology/Electronics and Telecommunication or a Master's Degree in Computer Applications or a M.Tech./M.E. in Computer Science/Information Technology/Electronics and Telecommunication with a minimum of second class in Graduate or Post Graduate degree.

c) Experience

The Resource must possess a minimum of three years of intensive experience in VMware administration & monitoring, configuring & managing Storage Area Network (SAN), Administering & Managing Backup devices and troubleshooting of various devices (SAN, backup devices, VMware). Must have excellent knowledge and experience in creation and configuration of virtual machines and their monitoring & administration

NOTE: The supplier must submit the CV of the proposed resources in the format as given in Annexure-G. The resource will be deployed on-site only after approval of CV by NISM. If dissatisfied with the CV of the resource or with the performance of the resource after the resource is deployed, NISM reserves the right to ask for immediate replacement of the resource.

3.8.2. Scope of Service

The onsite resources will carry out duties as stipulated in the "Onsite Technical Support Service" agreement to be signed by the supplier with NISM. This agreement will be drafted by NISM stipulating the key aspects like Scope of Work, Days and Hours of Work, Responsibilities and performance measures.

Amongst various other tasks, Onsite support must perform the following tasks on the hardware and software covered in the scope of this tender:

- Regular monitoring
- Troubleshooting
- Escalate to OEMs to resolve the defect
- Additional configuration and changes must be solely handled by the onsite resource

3.8.3. Contract Duration

The resources for "Onsite Technical Support" service will be deployed after the Project is signed off. The duration of On-site Technical Support Service contract is two years from the date of project is signed off (as per NISM's "Project Sign-off" procedure).

3.9. Location

The entire scope of work as mentioned in Section 3 will be delivered at the following location.

National Institute of Securities Markets,
Patalganga Campus,
Plot No 16-1 and 16-2,

Mohapada,
Patalganga.
District – Raigad, Maharashtra

3.10. Warranty Services

The bidders will provide comprehensive details as requested in Annexure-D. The selected bidder must arrange all updates through respective OEMs.

The supplier shall put in place all back to back support agreements for the proposed devices with respective OEMs for warranty services and submit documents in support of the same.

Warranty support services for all devices during the execution of the project before the project is signed off shall be provided by the bidder at no cost to NISM.

The bidder will provide Warranty Support Services from OEM for a period of 5 years (including the default warranty period) for the below mentioned devices. An appropriate document/certificate will be provided for the said warranty.

- a) Servers
- b) SAN
- c) Backup Storage
- d) Manageable UPS
- e) Chassis (In case of blade server option)

Firmware/ Application upgrades should be provided by supplier in warranty period. In case of any fault, supplier must arrange remote support or onsite support from OEMs as required. The supplier will be responsible entirely for collection and transportation of faulty equipment/components from the site and redeployment of repaired/replaced components/equipment under the said warranty terms at no cost to NISM.

3.11. Project Milestones and Sign off

NISM will engage the selected bidder in a comprehensive Project Planning exercise soon after issuance of Purchase Order. The outcome of this exercise is a comprehensive Project Plan covering all project milestones. The entire project will be executed in accordance with the agreed Project Plan. The Project will be signed off following the process prescribed by NISM. The Sign-off of the entire project will be subject to completion of the following key milestones amongst many other aspects:

- a) Completion of entire Scope of work as stated in this RFP
- b) Submission of Performance Bank Guarantee (or Extension of performance bank guarantees as required)
- c) Delivery of signed service level agreement for onsite support service

3.12. Brand Compatibility and Integrated Solution

The bidders must propose appropriate brands of various components meeting the key specifications as mentioned in Annexure-I as **minimum requirements** and also must ensure interoperability of components of proposed brands.

The bidder will stand solely responsible for delivery of a well-integrated solution meeting all the requirements as stated in the RFP.

4. PRICE VALIDITY PERIOD

The quoted prices for the equipment will remain valid for a period of 9 months from the date of closure of this RFP.

5. DELIVERY PERIOD

The estimated delivery period for the entire scope of work stated in Section 3 and project sign off is three months from the date of issuance of Purchase Order. This includes comprehensive project planning, resource mobilization, material delivery, installation and configuration of all components, delivery of other associated services, acceptance testing and Project Sign Off. A delivery schedule will be issued along with purchase order following a comprehensive assessment of the site readiness at the time of issuance of purchase order.

6. ELIGIBILITY CRITERIA

The Company/Bidder/Lead Bidder (in case of a consortium) must meet the following criteria. **The proposals of the suppliers not meeting these criteria will be rejected.** NISM may ask for supplementary information or additional documents as necessary by email only to address inadequacy of information to develop more clarity at the time of eligibility assessment of each bidder within ten days from the date of opening of envelopes containing EMD and eligibility information (Envelope - 1 and 2). NISM is not responsible for any delay in receiving responses or non-receipt of any response from the bidders to such requests. All email correspondence will be addressed to email id mentioned under section 2.5 (b).

6.1. Experience

Should have carried out installation and configuration of similar devices and infrastructure work at a scale as stated in Section-3. The Bidder must produce evidence of the said experience in the last 5 years (ending February 2016) as mentioned below

I. Should have executed three orders of similar nature, each order not less than 30 lakhs.

OR

II. Should have executed two orders of similar nature, each order value not less than 38 lakhs.

OR

III. Should have executed one order of similar nature not less than 60 lakhs.

The Bidder/Lead Bidder (in case of a consortium) must enclose copies of Purchase Orders and completion certificate in support of the above. In case of a Lead Bidder, the Purchase Orders must be in the name of the Lead Bidder. This should be submitted in Envelope-2 as stated in Section-2.1.

6.2. Company Turnover

The Bidder/Lead Bidder (in case of a consortium) must have a minimum turnover of 1 Crore per annum for the FY 2014-15, FY 2013-14 and FY 2012-13 (Please note that the turnover for each year is expected to be a minimum of 1 crore for similar works as mentioned in this tender document).

The Bidder/Lead Bidder (in case of a consortium) must enclose copies of Audited Company Balance sheet (along with Profit & Loss Account Statement) for the said financial years. In case of a Lead Bidder, the Balance Sheet & Profit and Loss Account Statements must be that of the Lead Bidder Company. This should be submitted in Envelope-2 as stated in Section-2.1.

6.3. Scope of Work Confirmation

Bidder/Lead Bidder (in case of a consortium) will provide confirmation regarding scope of work to be executed in the format as stated in Annexure-D. **All the information pertaining to Section 6.1 to 6.3 will be submitted in Envelope-2 as mentioned in Section 2.1.**

7. Performance Bank Guarantee (PBG)

The selected supplier will be required to submit a Bank Guarantee of 10% of the Bid Price (inclusive of applicable taxes) covering the scope of work as stated in Section-3. The Bank Guarantee will remain valid for a period of 12 months from the date of issuance of Purchase order or 8 months from the Project Sign-off whichever is longer. Bank Guarantee will be submitted by the selected bidder within a week of issuance of Purchase Order. The Bank Guarantee will be drawn on a bank located in Mumbai or NaviMumbai. The Bank Guarantee will be promptly extended by the supplier (if required) by a suitable period in line with the above mentioned validity period. The bank guarantee from Cooperative Banks will not be acceptable. The Performance Bank Guarantee shall be forfeited if the work is not completed as per the agreed project schedule and the requirements stated in Section - 3.

8. EVALUATION OF PROPOSALS

8.1.Evaluation Process

The evaluation process will be as follows:

- i. Envelope-1 containing EMD will be opened first. If the EMD is found to be in order as per the terms stated in Section-2.3. Then the second envelope of the supplier will be opened.
- ii. The Eligibility Information of all those suppliers whose EMD is found to be in order will be checked against the eligibility criteria stated in Section-6 for compliance.
- iii. The Financial Proposals of only those suppliers who meet the eligibility criteria will be opened and evaluated by the evaluation committee of NISM.
- iv. The tender will be awarded to the supplier who has submitted the lowest bid price.

All decisions made by the Evaluation Committee of NISM during the above mentioned evaluation process shall be final and binding on all bidders.

8.2.Notification to Unsuccessful Bidders

Unsuccessful bidders will be notified by email. Any queries regarding an unsuccessful proposal should be mailed to the contact address mentioned in Section-2.5 of this document.

9. IMPORTANT DATES

Bidders are requested to take note of the following dates:

9.1.Date of Issuance of RFP

The date of issuance of RFP is 23/02/2016

9.2.Pre-bid meeting to seek clarifications regarding the RFP

The meeting will be conducted as per the following agenda:

- Opening Remarks.
- RFP briefing.
- Feedback.
- Q & A

The pre-bid meeting with all prospective bidders shall be held in the Board Room, 5th floor, NISM Bhavan, Plot no: 82, Sector-17, Vashi, Navi Mumbai. Only two to three representatives of each supplier are requested to attend the meeting. The meeting will be held on 09/03/2016 from 15.00 Hrs. to 16.00Hrs.

9.3.Date and Time of submission of duly filled and sealed proposal

The duly filled and sealed proposals should be submitted by **17:30hrs on 11/04/2016** at NISM Bhavan, Vashi, Navi Mumbai.

9.4.Opening of envelopes containing EMD and eligibility information

The envelopes containing **EMD and Eligibility Information** will be opened on **12/04/2016 at 17.00 hrs** in the Board Room, 5th Floor, NISM Bhavan, Vashi, Navi Mumbai.

9.5. Opening of Price Bids

The price bids of the eligible suppliers will be opened on **25/04/2016 at 17.00 hrs** in the Board room, 5th floor, NISM Bhavan, Vashi, Navi Mumbai.

10. PAYMENT PLAN

NISM will issue a Purchase Order for the project covering the entire scope of work as stated in Section 3. 100% payment for the entire scope of work as stated in section-3 shall be made only after project sign off upon submission of invoices.

11. SIGNING OF PROPOSALS

The proposal shall be typed or written in ink and shall be signed (on the cover letter) by a person or persons duly authorized by the supplier to bind the supplier to the contract. All pages of the proposal, except unamended printed literature, shall be initialed by the person or persons signing the proposal. The proposal shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the supplier, in which case such corrections shall be initialed by the person or persons signing the proposal.

12. INSPECTION

NISM or its representative will carry out inspection and testing to confirm the conformity of the goods and services to the stated technical specifications. Should any inspected or tested equipment fail to conform to the specifications or it is not as per the purchase order, NISM may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet specification requirements free of cost to NISM.

13. PENALTY FOR DELAY

The supplier must strictly adhere to the project schedule agreed with NISM immediately after issuance of purchase order. The supplier shall have to pay penalty to NISM @ One percent (1%) per week of the value of the purchase order inclusive of all taxes, duties levies etc. for late delivery. There shall be an upper limit of 10% of the gross amount (i.e. total order value) for the penalty to be deducted. The applicable penalty will be deducted from the amounts due for payment. In case of delay beyond 3 months from the agreed project schedule, NISM reserves the right to terminate the contract by recovering the penalty. Also the Performance Bank Guarantee will be forfeited in the event of termination of the contract. The supplier will be asked to remove all equipment pertaining to any work in progress not acceptable to NISM and will not be paid for the

concerned equipment and services. NISM also reserves the right to engage a third party supplier to complete the ongoing works to its satisfaction and recover the cost of the same from the terminated supplier.

14.INDEMNITY

The supplier shall indemnify, protect and save NISM against all claims, losses, costs, damages, expenses, action suits and other proceedings resulting from infringements in respect of all hardware and software supplied to NISM.

15.ARBITRATION

In the event of a dispute or difference of any nature whatsoever between NISM and the supplier during the course of assignment arising as a result of this RFP, the same shall be referred for arbitration to the panel of arbitrators. The panel shall be constituted prior to commencement of arbitration and shall comprise of two arbitrators and an umpire. NISM and the supplier shall each nominate an arbitrator to the panel and these arbitrators shall appoint an umpire. Arbitration shall be carried out at NISM office in Navi Mumbai and as per Indian Arbitration Act/Laws.

16.JURISDICTION

The jurisdiction for the purpose of settlement of any dispute of differences whatsoever in respect of or relating to or arising out of or in any way touching the works awarded or the terms and conditions thereof shall be that of the appropriate court in Mumbai. The jurisdiction of any other court in any place other than Mumbai is specifically excluded.

17.FORCEMAJEURE

Should either party be prevented from performing any of its obligations under this RFP by reason of any cause beyond its reasonable control, the time for performance shall be extended until the operation or such cause has ceased, provided the affected party gives prompt notice to the other of any such factors or inability to perform, resumes performance as soon as such factors disappear or are circumvented. If under this clause either party is excused of performance of any obligation for a continuous period of 90 days, then the other party may at any time hereafter while such performance continuous to be excused, terminate this agreement without liability, by notice in writing to the other. In all such cases NISM's decision shall be final and binding on all concerned.

ANNEXURE -A

(This must be enclosed in Envelope-2)

Company Profile

Name of the company	
Legal Status (e.g., sole proprietor, partnership, limited liability partnership, corporation etc., (Attach a copy of the certificate of incorporation)	
Physical Address	
Business Profile of the company (Attach a separate write-up or brochure that provides details of the business activities of the company)	
Email ID of the company	
PAN Number of the company	
TAN Number of the company	
TIN/VAT Number of the company	
Service Tax Registration Number	
Name of the Contact Person with Mobile and land line Number	

Company Name as it appears in its Bank Account	
Bank Account Number	
Type of Account	
Bank Name	
Bank's Branch Address	
Bank Branch IFSC Code	

Signature of the Authorized Signatory of Company Name:
Designation:
Contact no(Mobile):
Email Id:
Company Name:
Company Seal:

ANNEXURE - B

(This will be enclosed in envelope-2)

Date:

To,

National Institute of Securities Markets,

NISM Bhavan, Plot No: 82, Sector - 17, Vashi, Navi Mumbai - 400703.

Dear Sir/Madam,

Subject: Response to the Request for Proposals for Hosting Platform at NISM CAMPUS, Patalganga (Document Reference No. : NISM/ICT/RFP/07/2015-16).

1. Having examined the Request for Proposals including Annexures, the receipt of which is hereby duly acknowledged, we, the undersigned offer to supply, install and configure the equipment in accordance with the scope of work as stated in Section-3 of the RFP within the cost stated in the proposal.
2. If our proposal is accepted, we undertake to abide by all terms and conditions of this RFP and also to comply with the delivery schedule as mentioned in the RFP.
3. We certify that we have provided all the information requested by NISM in the requested format. We also understand that NISM has the right to reject this offer if NISM finds that the required information is not provided or is provided in a different format not suitable for evaluation process for any other reason as it deems fit. NISM's decision shall be final and binding on us.
4. Also, we confirm that we have a fully functional office in Mumbai/ Navi Mumbai, Maharashtra.

Thank you.

Yours faithfully,

Signature of the Authorized Signatory of Company

Name: _____, Designation: _____

Contact no(mobile): _____, Email Id: _____

Company Name:

Company Seal:

(This letter should be typed on the letterhead of the Company and must be signed by the Authorized Signatory of the Company/Lead Company of the Consortium.)

ANNEXURE - C
(This will be enclosed in envelope-2)

Date:

To,
National Institute of Securities Markets,
NISM Bhavan, Plot No: 82, Sector - 17, Vashi, Navi Mumbai - 400703.

Dear Sir/Madam,

Subject: Manufacturer Authorization Certificate

This is to certify that M/s _____ having its registered office at _____, is duly authorized to quote to you the _____ (Brand Name) Products for requirements of National Institute of Securities Markets, against RFQ Document reference No. NISM/ICT/RFQ/07/2015-16. For any further information/clarification, we are committed to be of assistance.

Thank you.
Yours faithfully,

Signature of the Authorized Signatory of OEM
Name: _____, Designation: _____
Contact no(mobile): _____, Email Id: _____
OEM Name: _____

Company Seal:

(This letter should be typed on the letterhead of the OEM and must be signed by the Authorized Signatory of the OEM)

ANNEXURE - D

Confirmation of Scope of Work

(Fill in all blanks as appropriate)

(Also read Section-3 of the RFP before filling the following Form. The duly filled form must be submitted in envelope-2)

1. COMPANY NAME:

2. ADDRESS:

3. CONTACT PERSON: _____

4. PHONE NUMBER: _____

5. EMAIL: _____ 6. WEB SITE: _____

(NOTE: You may attach the brochures providing more details of the product)

We confirm that the following components and services will be delivered in accordance with the Terms and Conditions of the RFP meeting the stated requirements (Document Reference Number: NISM/ICT/RFP/07/2015-16).

A. Components

Option -1 (Blade Server Option)

#	Component Code	Component Description	Brand	Model No	Specifications (Either provide Brochures/documents or URL on the Web or write comprehensive specifications)	Qty	Specify Additional features if any. Otherwise write "Yes" against each item if the proposed equipment has same specifications as stated in

							Annexure-I of the RFP.
1	BL_SVR	Blade Server				2	
2	SAN	Storage Area Network				1	
3	CHA	Chassis				1	
4	BASTR	Backup Storage				1	
5	MUPS	Manageable UPS				1	
6	VM	VMWare				1	
7	OSWIN1	Operating System				2	
8	SQL	SQL Server				6	
9	ANTSW	Anti-Virus				300	
10	TRAINING	Training				1	
11	EXT WARRANTY	Extended Warranty				1	
12	SERVER_RACK	Server Rack				2	

Option -2 (Rack Server Option)

#	Component Code	Component Description	Brand	Model No	Specifications (Either provide Brochures/documents or URL on the Web or write comprehensive specifications)	Qty	Specify Additional features if any. Otherwise write "Yes" against each item if the proposed equipment has same specifications as stated in Annexure-I of the RFP.
1	RK_SVR	Rack Server				2	
2	SAN	Storage Area Network				1	
3	BASTR	Back up Device				1	
4	MUPS	Manageable UPS				1	
5	VM	VMware				1	
6	OSWIN1	Operating System				2	
7	FCSW	FC Switch				1	
8	KVM	KVM Switch				2	
9	CPUM	CPU Module				4	

10	SQL	SQL Server				6	
11	ANTSW	Antivirus				300	
12	TRAINING	Training				1	
13	EXT WARRANTY	Extended Warranty				1	
14	SERVER_RACK	Server Rack				2	

B. Services

#	SERVICE	Confirm (Yes/No)	Remarks
1.	Installation Configuration and Testing of devices as per Clause 3.1		
2.	Labeling Work as per Clause 3.3		
3.	Project Management Services shall be rendered as per Clause 3.5		
4.	Documentation as per Clause 3.6		
5.	Training as per Clause 3.4		
6.	Preparatory work as per clause 3.7 for acceptance testing.		
7.	Onsite Technical Support Service shall be provided as per Clause 3.8		
8.	CVs of Resources for Onsite Technical Support Service enclosed in Envelope - 2		
9.	Ensuring Brand Compatibility and an Integrated Solution as per Clause 3.12		

C. Warranty Services

#	Device	Total Warranty Period of 5 years		Warranty Details (Either Attach Detailed Documents or provide URL details or Write key aspects of Warranty in this column)
		Default Warranty Period in years	Additional Warranty Period in years	
1	Blade Server (In Case of Blade Server option i.e. option-1)			
2	Rack Server (In Case of rack Server option i.e. option-2)			
3	Storage Area Network			
4	Backup System			
5	Manageable UPS			
6	Chassis (In Case of Blade Server option i.e. option-1)			

Signature of the Authorized Signatory of Company
Name:
Designation:
Contact no(mobile):
Email Id:
Company Name:
Company Seal

ANNEXURE - E

(This will be submitted in envelope-2)

Date:

To
Senior Vice President (ICT)
National Institute of Securities Markets,
NISM Bhavan,
Plot No: 82, Sector - 17, Vashi,
Navi Mumbai - 400703.

Dear Sir/Madam,

Subject: **Letter of Commitment to project schedule for RFP No.: NISM/ICT/ RFP/ 07/2015-16**

We commit to the project schedule as stated in Section -5 of the RFP.

Thank you.

Yours faithfully,

Signature of the Authorized person

Name:

Designation:

Phone No (Mobile):

Fax and Email Address:

Official Seal:(This letter should be typed on the letterhead of the Company and must be signed by the Authorized Signatory of the Company/Lead Company of the Consortium)

ANNEXURE - F

(This will be submitted in envelope-2)

Date:

To
Senior Vice President (ICT)
National Institute of Securities Markets,
NISM Bhavan,
Plot No: 82, Sector - 17, Vashi,
Navi Mumbai - 400703.

Dear Sir/Madam,

Subject: **Statement of Commitment to supply Additional Quantities at original bid price for RFP No.: NISM/ICT/ RFP/ 07/2015-16**

1. We, here at, commit to supply additional quantities of all equipment stated in the above mentioned RFP at the price quoted in our proposal for a period of 18 months from the date of project signoff.
2. We also understand that the additional quantity of any of the equipment to be supplied will be restricted to a maximum of same quantities stated in this RFP.

Thank you.
Yours faithfully,

Signature of the Authorized person

Name:

Designation:

Phone No (Mobile):

ANNEXURE - G

CV Format

(This must be submitted in envelope 2)

NAME: _____

CURRENT DESIGNATION: _____

CURRENT EMPLOYER: _____

EDUCATION (BCA, MCA, B.Sc., M.Sc., B.E., B.Tech., M.Tech)

#	Degree	University/College	Specialization	Year	Grade

PROFESSIONAL CERTIFICATION:

#	Certificate	Year	Validity Period

EXPERIENCE (gained at all previous organizations including the current employer):

#	Organization	Designation	From	To	Major Tasks Completed

NOTE: Major tasks completed should be stated comprehensively and this information will be used for evaluation of the relevant experience of the candidate.

ANSWER

ANNEXURE -H

Price Bid

(This will be submitted in envelope-3)

Cost Break Down

a) Hardware and Software

Option - 1

# (1)	Product Code (2)	Product Name (3)	Brand (4)	Model (5)	Qty (6)	Unit Price (inclusive of taxes)(Rs.) (7)	Total (inclusive of taxes) (Rs.) (6) x (7)
1.	BL_SVR	Blade Server			2		
2.	SAN	Storage Area Network			1		
3.	CHA	Chassis			1		
4.	BASTR	Back up Device			1		
5.	MUPS	Manageable UPS			1		
6.	VM	VMware			1		
7.	OSWIN1	Operating System			2		
8.	SQL	SQL Server			6		
9.	ANTSW	Antivirus			300		
10.	TRAINING	Training			1		
11.	EXT WARRANTY	Extended Warranty			1		
12.	SERVER_RACK	Server Rack			2		
Total							

Option -2

# (1)	Product Code (2)	Product Name (3)	Brand (4)	Model (5)	Qty (6)	Unit Price (inclusive of taxes)(Rs.) (7)	Total (inclusive of taxes) (Rs.) (6) x (7)
1.	RK_SVR	Rack Server			2		
2.	SAN	Storage Area Network			1		
3.	BASTR	Back up Device			1		
4.	MUPS	Manageable UPS			1		
5.	VM	VMware			1		
6.	OSWIN1	Operating System			2		
7.	FCSW	FC Switch			1		
8.	KVM	KVM Switch			2		
9.	CPUM	CPU Module			4		
10.	SQL	SQL Server			6		
11.	ANTSW	Antivirus			300		
12.	TRAINING	Training			1		
13.	EXT WARRANTY	Extended Warranty			1		
14.	SERVER_RACK	Server Rack			2		
Total							

b) Onsite Support Service

#	Resource	Cost/month (inclusive of taxes)	Cost/annum (inclusive of taxes)	No. of years	Total Cost (inclusive of taxes)
1	Site Engineer			2	
Total					

c) Other Services

#	SERVICE	Cost (inclusive of taxes)
1.	Installation, Configuration, testing, labeling, documentation, project coordinationservice as per Section 3.2	
2.	Training as per Clause 3.4	
3.	Total	

d) Grand Total

#	Cost Component	Total Cost (inclusive of taxes)
Option 1		
1	Hardware and software option 1 Total Cost	
2	Onsite support Total Cost	
3	Other Services Total Cost	
Grand Total		
Option 2		
1	Hardware and software option 2 Total Cost	
2	Onsite support Total Cost	
3	Other Services Total Cost	
Grand Total		

ANNEXURE -I

Specification Catalogue

#	Product Code	ITEM/Component	Brand
1	<u>BL_S</u> <u>VR</u>	<p>Blade Server</p> <p>Key Specifications:</p> <p>a) Processor</p> <ul style="list-style-type: none"> • No. of CPUs <u>required</u> - 1 • Maximum no. of CPUs to be supported by each blade - 2 • No. of cores <u>required</u> per CPU - 12 or higher • Motherboard must support CPUs of 18 cores • Minimum Processor Frequency (<u>required</u>) -2.6GHz • <u>Required</u> processor cache - 30MB L3 or higher <p>b) Memory</p> <ul style="list-style-type: none"> • Memory Required - 128GB • Maximum Memory to be supported - 1TB • No. of DIMMs required -4 • DIMM Size -32GB • Maximum No. of DIMM Slots per blade- 16 (8 slots per CPU) <p>c) Internal Storage</p> <ul style="list-style-type: none"> • Storage Required - 2 Drives, each of 1.2 Tb • Hard disk Type - SAS , 120 IOPS • Rotations - 10K RPM • RAID Configuration - RAID 0, 1 <p>d) Operating System Server must support Windows Server latest version and service packs, Linux, Oracle Solaris, VMware, Citrix XenServer, Canonical Ubuntu Server</p> <p>e) Form Factor Half-height server blade</p> <p>f) Network Ports</p> <ul style="list-style-type: none"> • No. of FC Ports required-2 (Autosensing , supports FCoE) • FC Port Throughput - 8Gbps • No. of PCIe Slots - 2 • No. of SFP+ ports required -2 (Port Speed - 10Gbps) <p>g) Management Software</p>	HP/DELL/ Lenovo

		<p>Suitable Server Management Software</p> <p>h) Power Supply Fully redundant power supply</p> <p>i) Warranty</p> <ul style="list-style-type: none"> • Default Warranty - 3years • Additional Warranty - 2years • Parts/Labor/Onsite - 5/5/5 Years 	
2	<u>RK SV</u> <u>R</u>	<p>Rack Server</p> <p>Key Specifications</p> <p>a) Processor</p> <ul style="list-style-type: none"> • No. of CPUs <u>required</u> - 1 • Maximum no. of CPUs to be supported by each server - 2 • No. of cores <u>required</u> per CPU - 12 or higher • Motherboard must support CPUs of 18 cores • Minimum Processor Frequency (<u>required</u>) -2.6 GHz • <u>Required</u> processor cache - 30MB L3 or higher • <p>b) Memory</p> <ul style="list-style-type: none"> • Memory Required - 128GB • Maximum Memory to be supported - 1TB • No. of DIMMs required -4 • DIMM Size -32GB • Maximum No. of DIMM Slots per blade- 16 (8 slots per CPU) <p>c) Internal Storage</p> <ul style="list-style-type: none"> • Storage Required - 2 Drives, each of 1.2 Tb • Hard disk Type - SAS , 120 IOPS • Rotations - 10K RPM • RAID Configuration - RAID 0, 1 <p>d) Operating System Server must support Windows Server latest version and service packs, Linux, Oracle Solaris, VMware, Citrix XenServer, Canonical Ubuntu Server</p> <p>e) Form Factor - 2U</p> <p>f) Network Ports</p> <ul style="list-style-type: none"> • No. of FC Ports required-2 (Autosensing , supports FCoE) • FC Port Throughput - 8Gbps 	HP/DELL/ Lenovo

		<ul style="list-style-type: none"> • No. of PCIe Slots - 3 • No. of SFP+ ports required -2 (Port Speed - 10 Gbps) <p>g) USB Ports - 4</p> <p>h) VGA Ports - 2</p> <p>i) Management Software Suitable Server Management Software</p> <p>j) Power Supply Fully Redundant Power Supply</p> <p>k) Warranty</p> <ul style="list-style-type: none"> • Default Warranty - 3years • Additional Warranty - 2years • Parts/Labor/Onsite - 5/5/5 Years 	
3	<u>CHA</u>	<p>Server Chassis</p> <p>a) Chassis</p> <ul style="list-style-type: none"> • Form Factor - 10U • Standard "Server Rack" Mountable • Maximum No. of Server Slots - 8 full height or 16 half height • Each slot to accommodate half height blade server • 2 slots Loaded and configured with Blade servers mentioned above • Should support blades with Intel CPU <p>b) Power</p> <ul style="list-style-type: none"> • 4 Power Supplies with Fully loaded hot swappable power modules , providing redundancy • Factory Integrated • Power efficient <p>c) Network</p> <ul style="list-style-type: none"> • Two Layer-2 Ethernet switches - each with 8 SFP+ ports for uplinks (10 Gigabit ports),4 ports enabled with 10 gigabit transceivers • Two FC Switches - each with 10 FC ports (port speed - 8gbps), enabled • Redundant Management module • 2 USB ports • Dual end to end redundant network connectivity for each blade on both Ethernet and FC switches • Factory Integrated <p>d) Optical Drive Must have one DVD-ROM drive inbuilt into the enclosure</p> <p>e) Cooling</p>	HP/DELL/ Lenovo

		<ul style="list-style-type: none"> • Fully loaded hot swap redundant cooling modules • Minimum number of active fans - 6 • Quieter operation <p>f) Management</p> <ul style="list-style-type: none"> • Software/Firmware to trigger pre failure alerts and error identification on Hard-disks, processors, memory, power supply, fans/blowers, switch modules. • System management module for configuration of blades and deployment of OS. • Software for vulnerability assessment 	
4	<u>SAN</u>	<p><u>SAN</u></p> <p>a) Form Factor - 2U</p> <p>b) Capacity 25TB Usable Space The Storage Array shall be offered with 25TB usable Capacity using 1.2TB SAS 10K drives. The Storage System should be scalable to 50 Drives</p> <p>c) Drive description SAS, 10K RPM ,minimum 140 IOPS, Small Form Factor Offered Storage shall support Raid 0, 1, 5 and Raid 6.</p> <p>d) Controllers No. of Controllers - 2</p> <p>e) Host interface 8 Gb Fiber Channel (4) Ports per controller</p> <p>f) <u>Appropriate utility must be included in the SAN solution to provide both file level and block level protocols.</u></p> <p>g) Clone The Storage should be configured with features of snapshot and full copy (Clone)</p> <p>h) Compatible operating systems Microsoft Windows Server 2012, Red Hat Linux, SUSE Linux, VMware ESXi 6.0 and later versions</p> <p>i) Power Supply Redundancy in power supply.</p> <p>j) Management Software Should be configured with required Management software to Manage the Storage. Software can be used for reporting / performance monitoring purpose</p>	HP, DELL, EMC, IBM

5	<u>MUPS</u>	<u>Manageable UPS (for graceful shutdown of servers)</u> <ol style="list-style-type: none"> a) Power output – 4 KVA (Required) Scalable upto 6 KVA b) Power backup period- 20 minutes (full load) , 40 minutes (Half load) c) Communication ports: USB , serial , RJ-45 ethernet port (to communicate with servers) d) Web/SNMP Management Card e) Rack mountable f) Rack mounting brackets g) Form factor – 2U h) Recharge time – 3-4 hours i) Buzzer sound on power failure j) Key features of Management Software <ul style="list-style-type: none"> • Support safe shut down of both physical blade/rack servers and virtual servers • Browser Manageable from local PC • Email Alerts • IPV6 Support • Installable on Microsoft Windows Virtual Machine k) Compatible Operating System – Microsoft Windows, Linux , VMWare l) Warranty Package for 5 years 	Eaton / APC/ Emerson
6	<u>BAST R</u>	<u>Backup Storage</u> <ol style="list-style-type: none"> a) Backup device <ul style="list-style-type: none"> • Processor – Minimum 2.1 GHz , No. of Processors – 2 (<u>required</u>) With provision to support up to 12 processors • Memory- minimum 32 GB • Operating System- Microsoft Server 2012 Standard R2 (Academic) • Storage medium –SAS HD, 10K RPM • Storage size (Usable) -15 TB • Backup to be taken for data from SAN • Deduplication & Compression Minimum of 50% reduction in backup storage space requirement • Host Interface <ul style="list-style-type: none"> ➤ 2 X 8 Gbps Fibre Channel Interface ports ➤ 2 X 1Gbps Ethernet ports b) Backup Software <ul style="list-style-type: none"> • Data Backup policy <ul style="list-style-type: none"> ➤ Daily incremental data backup ➤ Weekly full data backup ➤ Monthly full system (data + applications) backup ➤ Daily incremental backup to be retained for 6 days ➤ Weekly backup to be retained for a month 	HP, DELL, IBM, EMC

		<ul style="list-style-type: none"> ➤ Monthly backup to be retained for a year • Configurable to take backup of 2 physical machines and 6-8 Virtual Machines • Recovery & Restore <p>c) Data Types The backup of following types of data is required to be taken:</p> <ul style="list-style-type: none"> • Databases (i.e. SQL, MySql, Oracle etc.) • Doc, pdf, excel, ppt, html, textfiles etc. • Audio and Video files • Images • Executable program files <p>d) License requirements Adequate number of various types of licenses as required by the offered solution to meet the above mentioned requirements. <u>The bidder is required to provide comprehensive details covering the number, type and purpose of the licenses.</u></p>	
7	<u>VM</u>	<u>VMWare (Licensing Pattern Academic)</u>	VMWare
		a) VMware vSphere 6 with Operations Management Enterprise Plus for 1 processor	
		b) Support/Subscription VMware vSphere 6 with Operations Management Enterprise Plus for 5 years	VMWare
		c) VMware vCenter Server 6 Foundation for vSphere 6	VMWare
		d) Support/Subscription VMware vCenter Server 6 Foundation for vSphere 6 for 5 years	VMWare
8	<u>OSWIN1</u>	<u>Operating System</u>	Microsoft
		<ul style="list-style-type: none"> • Microsoft Windows 2012 Server with latest service packs • License type- Standard License • No. of guests - 2 • License scheme - Academic 	
		<u>Additional Guest License for MS Windows 2012 Standard Server</u>	Microsoft
9	<u>SQL</u>	<u>MS SQL Server</u>	Microsoft
		<ul style="list-style-type: none"> • Edition: MS SQL Server 2014 Standard • Licensing model: Server + CAL Model is required. (Please Note that we do not want per core licensing model) • License Scheme- Academic <p>Note: SQL server will be used on 4 virtual machines</p>	
		Number of Server licenses - 6	Microsoft
		Number of additional CALs (excluding default number) - 5	Microsoft

10	<u>ANTS</u> <u>W</u>	<u>Antivirus Software</u> a) Number of Servers - 1 b) Number of Clients - 300 c) Hosting Platform <ul style="list-style-type: none"> • A virtual server under VMware running Windows 2012 Server • The signature updates to be scheduled on the virtual server. • The client machines to be updated instantaneously as soon as updates are available on virtual server. 	Mcafee, Symantec
11	<u>FCSW</u>	<u>Fiber Channel Switch</u> a) Number of Ports : 8 (enabled) b) Port Speed: 8 Gbps c) Form Factor : 1U d) Redundant Power Supply e) Warranty- 3 Years	HP, Cisco, Dell, Brocade
12	<u>KVM</u>	<u>KVM Switch</u> a) Computer Connections -16 b) Port Selection OSD, Hotkey, Pushbutton c) Connectors <ul style="list-style-type: none"> • Console Ports 2 x USB Type A Female (White) • 1 x 6-pin Mini-DIN Female (Purple) • 1 x 6-pin Mini-DIN Female (Green) • 1 x HDB-15 Female (Blue) • KVM Ports 16 x RJ-45 Female • Daisy Chain Ports 1 x DB-25 Female (Black) • 1 x DB-25 Male (Black) d) Firmware Upgrade 1 x RJ-11 Female (Black) e) Port Selection 16 x Pushbutton f) Firmware Upgrade 1 x Slide g) LEDs <ul style="list-style-type: none"> • Online -16 (Green or other color) • Selected -16 (Orange or other color) • Power-1 (Blue or other color) • Station ID- 1 x 2 Digit 7-segment (Orange or other color) h) Keyboard / Mouse-USB i) Power <ul style="list-style-type: none"> • I/P Rating 100-240V AC; 50/60 Hz 1A • Power Consumption- 120V/5.8W ; 230V/6W 	Aten , D-link
13	<u>CPUM</u>	<u>CPU Module</u> a) Link - 1 RJ-45 X Female b) USB to Computer - 1 X USB Type A Male c) VGA to Computer - 1 X HDB - 15 Male d) LED - Online (Green or any color) , Link (Orange or any color)	Aten , D-Link
14	<u>EXT</u> <u>WARR</u> <u>ANTY</u>	<u>Extended Warranty</u> <u>Extended Warranty for following items</u> a) Blade Server	

		<ul style="list-style-type: none"> b) Rack Server c) SAN d) Backup Device e) Chassis f) Manageable UPS 	
15	<u>SERV ER_R ACK</u>	<u>SERVER RACK</u> <ul style="list-style-type: none"> a) Form Factor - 42U b) 800 mm wide * 1000 mm depth c) Floor Mounted d) Sufficient Cooling Arrangements e) Castor Wheels with brakes - 4 f) PDU vertical 5*15 AMP with 12 Socket -2 	APW President, APC, Walrack

ANSWER