



**NATIONAL INSTITUTE OF SECURITIES  
MARKETS**

**REQUEST FOR PROPOSAL  
FOR SIMULATED MULTI-SEGMENT TRADING SYSTEM  
FOR NISM**

**(Document Reference No: NISM/ICT/RFP/04/2013-14)**

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

## 1. INTRODUCTION

National Institute of Securities Markets (NISM) is a public trust established by SEBI with the objective of enhancing the quality of securities market in the country through knowledge-based interventions. NISM intends to set up a trading lab for training students of various educational programs conducted by NISM. Hence NISM requires a simulated multi-segment trading system. Proposals are invited from the interested bidders for the said trading simulator mentioned in this document.

## 2. SUBMISSION OF PROPOSALS

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-10 of this document. Please refer the checklist given in Annexure- J to ensure that submissions have all the required items.

### 2.1 Proposal Format

The proposal will be submitted in three separate sealed envelopes. The first sealed envelope will contain eligibility documents as indicated in Section-6 and the envelope will be super scribed as "Eligibility for submission of Proposal for Simulated Multi-segment Trading System for NISM (Document Reference No. : NISM/ICT/RFP/04/2013-14)". The second sealed envelope will contain the technical proposal as stated in Section-7 and the envelope will be super scribed as "Technical Proposal for Simulated Multi-segment Trading System for NISM (Document Reference No. : NISM/ICT/RFP/04/2013-14)". The third sealed envelope will contain the quotation as stated in Section-8 and the envelope will be super scribed as "Quotation for Simulated Multi-segment Trading System for NISM (Document Reference No. : NISM/ICT/RFP/04/2013-14)". The three separate sealed envelopes should be put together in another sealed main envelope super scribing it as "Proposal for Simulated Multi-segment Trading System for NISM (Document Reference No. : NISM/ICT/RFP/04/2013-14)". Please note that envelop-1 and 2 must not contain any documents showing the cost of the proposed solution and services. If the cost figures are mentioned anywhere in the said envelopes, the proposal will be disqualified and will not be

evaluated. The quotation must be unconditional. Conditions if any should be indicated in technical proposal only.

## **2.2 Earnest Money Deposit (EMD)**

- All bidders will provide an EMD of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) by Demand Draft/Bankers Cheque/Pay Order drawn on any reputed bank in favor of “National Institute of Securities Markets”. 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 within a week after the tender is awarded.
- The EMD will not bear any interest.
- Bids not accompanied by EMD will be rejected.
- The EMD of the successful bidder will be released within two weeks from the date of sign off of the project (which involves successful installation, configuration and testing of the trading simulator as per the requirements of NISM and delivery of all necessary documents and media.)

## **2.3 Performance Bank Guarantee (PBG)**

The selected supplier will be required to submit a Bank Guarantee of 10% of the Bid Price covering the scope of work as stated in Section-3. The Bank Guarantee will be submitted by the selected supplier within a week of issuance of the Purchase Order. Failure to submit performance bank guarantee within the stipulated period shall mean that the supplier is not interested in the works and this may lead to cancellation of purchase order and forfeiture of EMD. The Bank Guarantee will be drawn on a reputed bank. The Bank Guarantee must be revocable in the branch located in Mumbai or Navi Mumbai. The Bank Guarantee will be valid for a period of 4 years from the date of project sign off.

EMD will be released after project sign off. 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 required schedule and specification or amount may be adjusted towards liquidated damages and the balance amount will be paid.

## **2.4 Other Information**

- Suppliers are required to quote for all items mentioned in Section-3 of this document. Please note that the proposals from suppliers not bidding for all items as requested in section-3 will be rejected.
- 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 on the same terms.
- 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-10 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 the Proposals by the bidder will be entirely borne by bidder themselves.

- 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.

## **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,  
5<sup>th</sup> Floor, NISM Bhavan, Plot No. 82,  
Sector - 17, Vashi, Navi Mumbai - 400 703.

- b) For any clarifications/queries contact the following person:

Ms. Rutuja Marathe,  
Assistant Manager -IT,  
National Institute of Securities Markets,  
5<sup>th</sup> Floor, NISM Bhavan, Plot No. 82,  
Sector - 17, Vashi, Navi Mumbai - 400 703.  
Email: [rutuja.marathe@nism.ac.in](mailto:rutuja.marathe@nism.ac.in), Contact Tel.: 022-66735124.

## **3. SCOPE OF WORK**

The scope of work to be delivered by the supplier is as follows

### **3.1 System Implementation Services**

- 3.1.1. The supplier will provide comprehensive specifications of the server that hosts the proposed trading system. The server will be provided by NISM and the operating system will be Windows 2008 R2 Enterprise Edition.

- 3.1.2. The supplier will install and configure the trading simulator software on the server to be provided by NISM. In the event of a delay in procurement of server, the supplier will be required to set up the trading system on one of the existing servers at NISM. The specifications of the server are given under Annexure- F. Subsequently the supplier will migrate the trading simulator to the proposed dedicated server at no additional cost.
- 3.1.3. The supplier to provide bandwidth requirement for 25 concurrent users of the trading simulator. The supplier will also suggest the type of internet service i.e. MPLS or leased line.
- 3.1.4. Integration with Datafeed (including changes in application to accommodate datafeed format changes from time to time). The supplier will provide datafeed. The supplier will be responsible for effective liaising with the datafeed provider and will do the necessary to make the simulator function properly.
- 3.1.5. A comprehensive training plan will be prepared; training material will be delivered and training will be conducted for 10 participants.
- 3.1.6. The supplier will propose a suitable resource for onsite support service in accordance with the requirements stated in Section 3.2.
- 3.1.7. The CVs of the proposed resources (for both the Project Implementation Service and Post Implementation Support service) will be approved by NISM prior to deployment of resources.

## 3.2 Resource requirements

The bidder is required to propose the following resources for project implementation and onsite technical support services for one year. The CVs of the proposed resources in the format as mentioned in Annexure E must be enclosed in the technical proposal (envelop 2). All Project Implementation resources (as indicated in the table below) are required to be deployed on-site in accordance with the agreed "Project Plan".

#	Resource Type	Description	Qualification	Experience	Duration
1	Project coordinator	This resource will be responsible for project management. He/She will also serve as a single point of contact during	<ul style="list-style-type: none"> <li>• Graduate</li> <li>• Well trained in project management techniques</li> <li>• PMP or Prince2 or</li> </ul>	<ul style="list-style-type: none"> <li>• Must have at least 6 years intensive IT project management experience.</li> <li>• The</li> </ul>	From inception until project sign off

		project execution and post implementation maintenance.	any other well recognized project management certification preferred	experience must include end-to-end project life cycle management of at least two medium scale projects.	
2	IT Resource	This resource is expected to have a thorough understanding of the application source code, scripts and the underlying database structure of the proposed trading simulator. The resource is expected to customize the simulator to NISM's requirements, configure the datafeed, prepare the technical documentation and train the end users and the IT personnel of NISM.	<ul style="list-style-type: none"> <li>• B.E., B.Tech., M.Tech. or B.Sc. in Computer Science/ Information Technology/ Computer Application/ Electronics and Telecommunication</li> <li>• Proficiency in the development kit, programming language and the database management system required for the simulator proposed by the bidder.</li> </ul>	<ul style="list-style-type: none"> <li>• At least four years experience in application development. Out of which one year must be on customization / configuration of the simulator proposed by bidder.</li> </ul>	For the duration as required by installation and configuration/ customization of the trading simulator.
3	Subject matter expert	This resource is required to understand and	<ul style="list-style-type: none"> <li>• Must be a graduate</li> <li>• A certificate</li> </ul>	<ul style="list-style-type: none"> <li>• At least five years relevant experience in</li> </ul>	For short intervals to provide

		document the functional requirements gathered from the faculty of the School for Securities Education of NISM. He/She will guide the IT resource in customization/ configuration of the simulator functionality. Also the end users will be trained by this resource.	<p>in any of the functions of securities market intermediaries is preferred.</p> <ul style="list-style-type: none"> <li>• A thorough knowledge of trading in equities, debt and derivatives of all markets.</li> </ul>	<p>securities market trading from a reputed trading establishment or securities markets.</p> <ul style="list-style-type: none"> <li>• Rich experience in configuration and operation of similar products in educational institutes and intermediaries certified by SEBI</li> </ul>	specific input to the project.
4	Onsite technical support person	This resource will be responsible for technical and functional support services for the simulator during the system maintenance period.	<ul style="list-style-type: none"> <li>• B.E., B.Tech., M.Tech. or B.Sc. in Computer Science/ Information Technology/ Computer Application/ Electronics and Telecommunication</li> <li>• Proficiency in the development kit, programming language and</li> </ul>	<ul style="list-style-type: none"> <li>• At least two year experience of providing technical support services with good knowledge of the functionality of a trading simulator.</li> </ul>	For one year to provide user and technical support services

			the database management system required for the simulator proposed by the bidder.		
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### 3.3 Application functionality

#### 3.3.1 Key Functionality

The trading simulator must support the following key features amongst various other features:

Sr. No.	Feature
1	<p>The simulator must provide the following configurable parameters:</p> <p>a. Order Entry</p> <ul style="list-style-type: none"> <li>• Time Condition (i.e. end of session, end of today, good till day, good till cancelled, end of settlement)</li> <li>• Price Condition (i.e. market order, limit order, market trigger, stop loss order)</li> <li>• Quantity Condition (i.e. disclosed quantity, all or none)</li> <li>• Product type (i.e. margin , delivery)</li> <li>• Custodian</li> <li>• Order type (i.e. open or close)</li> <li>• Price setting (default market protect/price var%, buy price variation, sells price variation, Size multiplier)</li> <li>• Order value setting                             <ul style="list-style-type: none"> <li>- Action type- don't allow or prompt</li> <li>- Maximum quantity limit</li> <li>- Maximum value limit</li> <li>- Issue size%</li> </ul> </li> <li>• Default quantity setting (minimum quantity, best in market, Enforce FAO MarketLot for CM)</li> <li>• Enable or disable capturing of client details (i.e. client code, client prefix) at the time of order entry.</li> <li>• Fast Order Entry (Reset BroadLot quantity, Disclosed Quantity)</li> </ul>

	<p>required, Focus on product type)</p> <ul style="list-style-type: none"> <li>• Prompt for confirmation (Order entry, order cancellation, order modification)</li> </ul> <p>b. General configuration</p> <ul style="list-style-type: none"> <li>• Enable or disable toolbar icons.</li> </ul>
2	<p>Master Management must contain following masters:</p> <ul style="list-style-type: none"> <li>• User master - add or modify branch, unit and user</li> <li>• Client master <ul style="list-style-type: none"> <li>- Add or modify client</li> <li>- Activate or deactivate client</li> <li>- Mapping clients to dealers</li> </ul> </li> <li>• Instrument master <ul style="list-style-type: none"> <li>- Add or modify instrument</li> <li>- Security or participant upload</li> <li>- Symbol mapping</li> <li>- ISIN upload</li> </ul> </li> <li>• Product type master <ul style="list-style-type: none"> <li>- Margin (Margin cut off time, auto square off time)</li> <li>- Delivery (cash benefit on sale, square off benefit on advanced stock, full benefit on sale)</li> </ul> </li> <li>• Role master</li> <li>• Location master- add or modify location</li> <li>• Warehouse location master- for FAO add location for symbols</li> <li>• Custodian master- add or modify custodian</li> <li>• Member details <ul style="list-style-type: none"> <li>- Membership details</li> <li>- Add or modify members</li> </ul> </li> <li>• Exchange - modify exchange details (i.e. President, or MD, executive director, market operation manager, address, city phone, email).</li> <li>• Portfolio index upload</li> <li>• Client custodian mapping</li> </ul>
3	<p>Maintenance</p> <ul style="list-style-type: none"> <li>• Limit maintenance - To set limit on deposit for a specific market type, on order (maximum quantity, maximum value, pending value). Should be able to apply limits on buy orders, sell orders, intraday, Market-To-Market, gross exposure and FAO margin.</li> <li>• An interface to capture advance stock details</li> </ul>

	<ul style="list-style-type: none"> <li>• An interface to set risk management parameters (i.e. market segment wise stock, index , bond, commodity exposure, VaR margin, price range, disclosed quantity, market protect and risk free rate expressed in terms of percentage). The interface will also have provision to set Clean up days and H C clean up days. The simulator will compute risk based on these parameters for various market segment.</li> <li>• Instrument grouping ( grouping of scripts or commodities based on exchanges and instruments.</li> <li>• Market Wide Position Limit square off setup (segment wise and for a given instrument)</li> <li>• Setting of Index movement restriction in percentage</li> </ul>
4	<p>Trading</p> <ul style="list-style-type: none"> <li>• Order entry</li> <li>• Order book</li> <li>• Trade book</li> <li>• Online trade book</li> <li>• Rejected order entry</li> <li>• Square off</li> <li>• Incremental trade upload</li> <li>• After Market Order entry</li> <li>• Spread order status</li> </ul>
5	<p>Daily Activities</p> <ul style="list-style-type: none"> <li>• Online backup facility for a given period based on market type, exchange, branch, unit, user, user type.</li> <li>• Housekeeping based on market segment</li> <li>• The system should have Risk management function to compute risk based on the net position upload</li> <li>• Full settlement</li> </ul>
6	<p>Queries</p> <ul style="list-style-type: none"> <li>• Snap quote</li> <li>• Market by price</li> <li>• Top N instruments</li> <li>• Top N gainers/ losers</li> <li>• Most active instruments</li> <li>• Market movement</li> <li>• Market enquiry</li> <li>• Indices broadcast</li> </ul>

	<ul style="list-style-type: none"> <li>• Instrument descriptor</li> <li>• Market status</li> <li>• Spread combinations</li> </ul>
7	<p>Utilities</p> <ul style="list-style-type: none"> <li>• A facility to add various scrips of a given instrument and exchange segment to market watch.</li> <li>• Options calculator</li> <li>• Margin calculator based on given exchange instrument and risk file.</li> </ul>
8	A facility for a comprehensive market surveillance
9	<p>The simulator must support the following modes:</p> <ol style="list-style-type: none"> <li>a. Simulation with current trading population (i.e. currently logged in students carrying out the trade) and the opening prices from the dataset.</li> <li>b. Simulated transactions</li> </ol> <p>A mix of (a) and (b)</p>
10	<p>Reports</p> <ul style="list-style-type: none"> <li>• Report of net position of users for various segments</li> <li>• Summary of all transactions</li> <li>• Instrument position report (transaction wise summary of transactions)</li> <li>• Transaction reports</li> <li>• Client position report for various market segments</li> <li>• List of violation</li> <li>• Client wise limit report</li> <li>• Market To Market loss report</li> <li>• FAO open position margin</li> <li>• Order /trades ratio</li> <li>• Margin report</li> <li>• Any other reports identified by NISM faculty during Gap analysis.</li> </ul>

### 3.3.2 Gap Analysis

The supplier will carry out Gap Analysis by holding a series of interactive sessions with the faculty of the relevant school(s) and the Project Implementation Team. The deliverable of this activity is a comprehensive "Gap Analysis Report". The supplier will develop and include the features identified in the Gap Analysis Report at no additional cost.

### 3.4 License conditions for the trading simulator

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License for unlimited use of the application for a maximum of 25 concurrent users. It may also be noted that the trading simulator will be accessed from any of current NISM locations including the upcoming Patalganga Campus.

### 3.5 Datafeed Conditions

- Supplier will provide and integrate datafeed with trading simulator.
- Supplier must provide quotation for annual subscription of datafeed for two time lag of 30 minutes delay.
- Datafeed must contain following segments:
  - NSE Cash Segment
  - BSE Cash Segment
  - NSE F&O
  - NSE Currency Derivatives

### 3.6 Post Implementation Maintenance and Support Services

The supplier is required to provide post implementation maintenance and technical support services for a period of four years on the following key terms and conditions:

- The first year of support and maintenance services will be rendered by deploying a suitable resource on site (at NISM Bhavan). The onsite resource will be available for three days in a week.
- For the second, third and fourth year of support and maintenance onsite resource will be available twice a week.
- NISM will plan and prepare weekly roster for the onsite resource each month in advance and communicate to the supplier.
- The supplier is required to quote for onsite and offsite support and maintenance services on monthly basis separately.
- The charges for onsite services will be prorated based on the actual number of days of service availed from the onsite resource.
- The charges for offsite support services will be paid on monthly basis.
- The detailed scope of service, payment plan and other terms and conditions will be covered by the maintenance contract to be signed by NISM with the supplier.

### 3.7 The Supplier will deliver and install the trading simulator at the following Location

National Institute of Securities Markets,

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5th Floor, NISM Bhavan, Plot No. 82,  
Sector - 17, Vashi, Navi Mumbai - 400 703.

In the event NISM requires additional quantities of the equipment stated in Section-3.1 within one year of placing the order to the selected bidder, the bidder will be required to supply the additional quantity at the same price as quoted in the proposal submitted in response to this RFP.

- 100% payment of first year simulator application chargers plus installation, configuration and set up charges will be made only after project sign off.
- Datafeed charges will be paid on quarterly basis in advance. 100% payment of first quarter charges of the datafeed along with one time installation and configuration charges will be made only after project sign off.
- Payment for onsite support and maintenance services will be made on monthly basis upon submission of invoice at the end of each month.

The supplier will be required to sign a formal project sign off report upon completion of the scope of work.

**NOTE:** Quantity of any of the item stated in this RFP may vary in the purchase order.

#### **4 DELIVERY, INSTALLATION, CONFIGURATION and PROJECT SIGN OFF**

The chosen supplier will be expected to deliver, install and configure trading simulator as mentioned in the scope of work under Section-3 of the RFP **within 4 weeks from the date of issuance of Purchase Order**. Assumption is that the leased line, Datafeed and servers will be available when the supplier ready to install and configure trading simulator.

The suppliers must submit duly signed letter of commitment to the delivery lead time as provided in Annexure-C. This letter will be submitted in envelope-2.

#### **5 PRICE VALIDITY PERIOD**

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

## 6 ELIGIBILITY

The bidders are required to meet the following eligibility criteria. The items mentioned in sections 6.1 to 6.4 will be enclosed in envelop-1 mentioned in section 2.1. The bidders not meeting the eligibility criteria stated in sections 6.1 to 6.4 will be rejected.

### 6.1 Experience

Should have minimum of 3 years (ending November, 2013) of experience in installation and configuration of trading simulators of following value:

I. Should have executed three orders of similar nature, each order not less than 18 lakhs.

OR

II. Should have executed two orders of similar nature, each order value not less than 27 lakhs.

OR

III. Should have executed one order of similar nature not less than 36 lakhs.

**The Suppliers must enclose copies of Purchase Orders in support of the above.**

### 6.2 Company Turnover

The company must have a minimum turnover of 2 Crore per annum for the FY 2012-13, FY 2011-12 and FY 2010-2011 (Please note that the turnover of **each year** is expected to be a minimum of 2 Crore).

**The Suppliers must enclose copies of Audited Company Balance sheet for the said financial years.**

### 6.3 Scope of Work Confirmation

Supplier will provide confirmation regarding scope of work to be executed in the format as stated in Annexure-B of this RFP.

### 6.4 EMD

An EMD for an amount of Rs. 2,75,000/- (Rupees Two Lakh Seventy Five Thousand only) will be submitted in line with the conditions stated in section 2.2.

## 6.5 Reference letter

Bidder should submit reference letters from institutes or companies in which they have installed simulated trading system in last three years and system is currently running ( as per format given in Annexure-I). NISM evaluation team may contact or visit institute or company to inspect the trading simulator installation.

**Supplier is required to submit information pertaining to Section 6.1 to 6.5 in Envelope-1 mentioned in Section 2.1.**

## 7 TECHNICAL BID

The technical bid will comprise of the following items. These will be enclosed in envelop-2.

### 7.1 Covering Letter

The covering letter will be submitted in the format as indicated in Annexure-A.

### 7.2 Company Profile

The company profile will be submitted in the format given in Annexure-H.

### 7.3 Proposed Resources

CVs of proposed resources will be submitted as per the format given in Annexure-E. Please refer section 3.2 for resource requirements.

### 7.4 Trading Simulator Functionality

The degree of fitness of the proposed trading simulator to the functionality requirements in the format as given in Annexure-D.

### 7.5 Commitment to Delivery Lead Time

A letter of commitment to delivery lead time will be furnished as per the format given in Annexure-C.

## 8 FINANCIAL BID

The financial bid will be submitted as per the format given in Annexure-G in envelope -3.

## 9 EVALUATION OF PROPOSALS

### 9.1 Evaluation Process

- I. Envelope-1 containing eligibility criteria will be opened first for all bidders. Bidders meeting all the eligibility criteria as stated in section 6 will qualify for evaluation of their technical proposals.
- II. The technical proposals of qualified bidders will be evaluated in accordance with the process stated in Section 9.2. The bidders who have scored equal to or more than the cutoff score on their technical proposal (as stated in Section 9.3) will be chosen for evaluation of their financial bids.
- III. The Financial bids of only those suppliers who meet the cutoff score as stated in Section 9.3 will be opened and evaluated by the evaluation committee of NISM. The bidder with the lowest bid price will be awarded the tender. The Financial bids will be evaluated on the basis of cost of the application, installation and setup services and cost of annual support and maintenance services (for four years based on quoted monthly rate).

All decisions made by the Evaluation Committee of NISM during the evaluation process will be final and binding on bidders.

### 9.2 Evaluation of Technical Proposals

The technical proposals will be evaluated based on the following criteria:

Sr. No.	Criteria	Maximum Points	Score
1	Degree of fitness of the proposed trading system to NISM's requirements	60	
2	Skill set of the proposed team for implementation of system	40	

- **Rating of the degree of fitness:**

The score awarded to a bidder for the proposed trading system will be based on the following formula:

$$\text{Score} = 60 * \text{Degree of Fitness} / 100$$

$$\text{Degree of fitness} = (X+Y) * 100 / (\text{Total Number of Required Features})$$

Where,

X=Total count of features supported by the product under column marked as "Readily Available"

Y=Total count of features supported by the product under column marked as "Work Around"

NOTE: Please refer Annexure D for the details on the functionality of the proposed trading system.

- **Rating of the proposed implementation team**

Each member of the evaluation committee will award points to the implementation team proposed by each bidder. The average number of points awarded to a bidder on the proposed implementation team will be calculated based on the points awarded by all members of the committee. Each member of the evaluation committee will rate the CV of each member of the proposed implementation team on 1 (Poor) to 10 (Excellent) scale. The sum of the ratings on all members of implementation team will stand as the points awarded by the concerned member of the evaluation committee to the proposed implementation team.

The score awarded to a bidder for the proposed implementation team will be computed as follows:

$$\text{Score} = 40 * (\text{Average Number of Points awarded to proposed team by Evaluation committee}) / 40$$

NOTE: Please refer Annexure B and E for details.

- **Technical Proposal Score:**

The overall score of the technical proposal will be computed as follows:

$$\text{Overall Technical Score} = S1 + S2$$

Where,

**S1** is the score on the degree of fitness of the proposed trading simulator.

**S2** is the score on the proposed implementation team.

### 9.3 Cutoff Technical Score

The cutoff point for the overall technical score is 90%. Also the bidders must score minimum of 90% on the degree of fitness of the proposed trading system.

### 9.4 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 of this document.

## 10 IMPORTANT DATES

- **Date of Issuance of RFP: 17<sup>th</sup> January 2014**
- **Pre-bid meeting to seek clarifications regarding the RFP: 3<sup>rd</sup> February 2014, 16:30 Hrs.** The pre-bid meeting with all prospective bidders shall be held in the Board Room , 5<sup>th</sup> floor, NISM Bhavan, plot no: 82, Sector-17, Vashi, Navi Mumbai . Only two representative of each supplier is requested to attend the meeting.
- **Date and Time of submission of duly filled and sealed proposal: 24<sup>th</sup> February, 2014 at 16:30hrs**
- The envelopes containing Eligibility Information will be opened on 25<sup>th</sup> February 2014 at 16:30hrs in the board room, 5<sup>th</sup> floor, NISM Bhavan, Vashi, Navi Mumbai.
- The Technical Bids of the eligible suppliers will be opened on 28<sup>th</sup> February 2014 at 16:30hrs in the 5<sup>th</sup> floor, NISM Bhavan, Vashi, Navi Mumbai.
- The Financial Bids of the technically qualified suppliers will be opened on 7<sup>th</sup> March 2014 at 16:30hrs in the 5<sup>th</sup> floor, NISM Bhavan, Vashi, Navi Mumbai.

## 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 initiated 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 delivery, installation and configuration schedule given in Section-4. The supplier shall have to pay penalty to NISM @ One percent (1%) per week on the unexecuted value of the purchase order inclusive of all taxes, duties levies etc. per week 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 or from Performance Bank Guarantee. In case of delay beyond 10 weeks from the stipulated delivery, installation and configuration schedule (as per section-4), NISM reserves the right to terminate the contract by recovering the penalty from Performance Bank Guarantee.

## 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 extant 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 FORCE MAJEURE

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 will be submitted 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 Proposal for Simulated Multi-segment Trading System for NISM, (Document Reference No : NISM/ICT/RFP/04/2013-14)**

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 trading simulator in accordance with the scope of work as stated 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.

Thank you.  
Yours faithfully,

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

**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-1)

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)

#	Scope	Specify Additional features if any. Otherwise write "Yes" against each item if the proposed equipment has same specifications as stated in Section-3 of the RFP.
1	Services	

i	Comprehensive specifications of the server that hosts the proposed trading system included in the proposal	
ii	Confirmation regarding the requirement to install and configure the trading simulator software on the server to be provided by NISM. In the event of a delay in procurement of server, the supplier will be required to set up the trading system on one of the existing servers at NISM. The specifications of the server are given under <u>Annexure- F</u> . Subsequently the supplier will migrate the trading simulator to the proposed dedicated server.	
iii	Bandwidth requirement for 25 concurrent users and the type of internet service (i.e. MPLS or leased line) included in the proposal.	
iv	Confirmation that supplier will provide and integrate Datafeed (including changes in application to accommodate datafeed format changes from time to time) and will be responsible for effective liaising with the datafeed provider and will do the necessary to make the simulator function properly.	
v	A comprehensive training will conducted for 20 participants.	
vi	A suitable resource for onsite support service in accordance with the requirements stated in Section 3.2 is proposed.	
vii	The CVs of the proposed resources (for both the Project Implementation Service and Post Implementation Support service) submitted in accordance with the requirements stated in Section 3.2 is included in proposal.	
<b>2</b>	<b>Application Functionality</b>	
	Degree of fitness submitted as per Annexure-D	
<b>3</b>	<b>Datafeed</b>	
i	Confirmation that supplier will provide and integrate datafeed with trading simulator.	
ii	Datafeed include following segments: <ul style="list-style-type: none"> <li>- NSE Cash Segment</li> <li>- BSE Cash Segment</li> <li>- NSE F&amp;O</li> <li>- NSE Currency Derivatives</li> </ul>	

	iii	Quotation of datafeed subscription with delay of 30 minutes delayed is included in proposal.	
<b>4</b>	<b>Hosting Platform Confirmation</b>		
	i	Confirmation that operating System : Windows 2008 R2 Enterprise Edition is suitable for trading simulator.	
	ii	Inclusion of adequate number of following licenses (as applicable) within the proposed solution: a. Client access licenses of OS b. License for the applicable database management system (i.e. MS Sql, ORACLE, MySql, etc.) c. License for the applicable development kit, if any. NOTE: Indicate as 'Not applicable' in the adjacent column against this item if no such licenses are required.	
<b>5</b>	<b>License conditions for the trading simulator</b>		
	i	Confirmation regarding license for unlimited use of the application for a maximum of 25 concurrent users.	
	ii	Permission to access the trading simulator from any of current NISM locations including the upcoming Patalganga Campus.	

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

---

**ANNEXURE C**

(This will be part of quotation and 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 Delivery Lead Time for RFP No.: NISM/ICT/ RFP/ 04/2013-14**

We commit to the delivery lead time as stated in Section -4 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 D

### Trading System Functionality

(This will be submitted in envelop-2)

The bidders are required to tick each feature as either 'readily available' or available as 'work around' or 'not available' in the following table.

#### Degree of Fitness Matrix

#	Feature	Readily Available	Work Around	Not Available
1	<b>Configurable parameters related to Order Entry</b>			
	Time Condition (i.e. end of session, end of today, good till day, good till cancelled, end of settlement)			
	Price Condition (i.e. market order, limit order, market trigger, stop loss order)			
	Quantity Condition (i.e. disclosed quantity, all or none)			
	Product type (i.e. margin , delivery)			
	Custodian			
	Order type (i.e. open or close)			
	Price setting (default market protect/price var%, buy price variation, sells price variation, Size multiplier)			
	Order value setting <ul style="list-style-type: none"> <li>- Action type- don't allow or prompt</li> <li>- Maximum quantity limit</li> <li>- Maximum value limit</li> <li>- Issue size%</li> </ul>			
Default quantity setting (minimum quantity, best in market, Enforce FAO MarketLot for CM)				

	Enable or disable capturing of client details (i.e. client code, client prefix) at the time of order entry.			
	Fast Order Entry (Reset BroadLot quantity, Disclosed Quantity required, Focus on product type)			
	Prompt for confirmation (Order entry, order cancellation, order modification)			
2	<b>General configuration:</b> Enable or disable toolbar icons.			
3	<b>Master Management</b>			
	User master – add or modify branch, unit and user			
	Client master - Add or modify client - Activate or deactivate client - Mapping clients to dealers			
	Instrument master - Add or modify instrument - Security or participant upload - Symbol mapping - ISIN upload			
	Product type master - Margin (Margin cut off time, auto square off time) - Delivery (cash benefit on sale, square off benefit on advanced stock, full benefit on sale)			
	Role master			
	Location master– add or modify location			
	Warehouse location master– for FAO add location for symbols			
	Custodian master- add or modify custodian			

	Member details <ul style="list-style-type: none"> <li>- Membership details</li> <li>- Add or modify members</li> </ul>			
	Exchange - modify exchange details (i.e. President, or MD, executive director, market operation manager, address, city phone, email).			
	Portfolio index upload			
	Client custodian mapping			
<b>4</b>	<b>Maintenance</b>			
	Limit maintenance - To set limit on deposit for a specific market type, on order (maximum quantity, maximum value, pending value). Should be able to apply limits on buy orders, sell orders, intraday, Market-To-Market, gross exposure and FAO margin.			
	An interface to capture advance stock details			
	An interface to set risk management parameters (i.e. market segment wise stock, index, bond, commodity exposure, VaR margin, price range, disclosed quantity, market protect and risk free rate expressed in terms of percentage). The interface will also have provision to set Clean up days and H C clean up days. The simulator will compute risk based on these parameters for various market segment.			
	Instrument grouping (grouping of scripts or commodities based on exchanges and instruments).			

	Market Wide Position Limit square off setup (segment wise and for a given instrument)			
	Setting of Index movement restriction in percentage			
<b>5</b>	<b>Trading</b>			
	Order entry			
	Order book			
	Trade book			
	Online trade book			
	Rejected order entry			
	Square off			
	Incremental trade upload			
	After Market Order entry			
	Spread order status			
<b>6</b>	<b>Daily Activities</b>			
	Online backup facility for a given period based on market type, exchange, branch, unit, user, user type.			
	Housekeeping based on market segment			
	The system should have Risk management function to compute risk based on the net position upload			
	Full settlement			
<b>7</b>	<b>Queries</b>			
	Snap quote			
	Market by price			
	Top N instruments			
	Top N gainers/ losers			
	Most active instruments			
	Market movement			
	Market enquiry			
	Indices broadcast			

	Instrument descriptor			
	Market status			
	Spread combinations			
<b>8</b>	<b>Utilities</b>			
	A facility to add various scrips of a given instrument and exchange segment to market watch.			
	Options calculator			
	Margin calculator based on given exchange ,instrument and risk file.			
<b>9</b>	A facility for a comprehensive market surveillance			
<b>10</b>	The simulator must support the following modes			
	Simulation with current trading population (i.e. currently logged in students carrying out the trade) and the opening prices from the dataset.			
	Simulated transactions			
	A mix of above mentioned modes			
<b>11</b>	<b>Reports</b>			
	Report of net position of users for various segments			
	Summary of all transactions			
	Instrument position report (transaction wise summary of transactions)			
	Transaction reports			
	Client position report for various market segments			
	List of violation			
	Client wise limit report			
	Market To Market loss report			

	FAO open position margin			
	Order /trades ratio			
	Margin report			
	<b>TOTAL</b>			

Degree of fitness will be assessed as follows:

$$\text{Degree of fitness} = (X+Y) * 100 / (\text{Total Number of Required Features})$$

Where,

X=Total count in column marked as "Readily Available"

Y=Total count in column marked as "Work Around"

## ANNEXURE - E

### CV Format

(Must be submitted in format given below in envelop 2)

NAME: \_\_\_\_\_

CURRENT DESIGNATION: \_\_\_\_\_

CURRENT EMPLOYER: \_\_\_\_\_

EDUCATION (Including professional qualification i.e. B.Sc., M.Sc., B.E., B.Tech., M.Tech, Ph.D.)

#	Degree	University/College	Specialization	Year	Grade

PROFESSIONAL CERTIFICATION:

#	Certificate	Year	Validity Period

EXPERIENCE:

#	Organization	Designation	From	To	Major Tasks Completed

NOTE: Description should be comprehensive and contribute towards your experience.

## **ANNEXURE F**

### **Server Specification**

#### **Configuration of Proposed Server**

##### **IBM System 3250 M3**

**CPU:** Intel Xeon processor 3430 quad core 2.4 GHz

**RAM:** 16 GB

**Internal Storage:** 4x300GB/ 4x146GB SAS HDD

**Operating System:** Windows 2008 R2 Enterprise Edition

#### **Configuration of Alternate Server**

The alternate server will be used if the proposed server mentioned above is not made available on time.

##### **IBM System x 3650 M4**

**CPU:** Intel Xeon processor E5-2600 product family CPU with quad core (3.3 GHz),

**Cache Memory :** 2.4 GHz, 16 MB L3 catch

**Memory :** UDIMM 32 GB

**Internal Storage (Hard Disk Capacity):** 4 TB of Hard Disk with 6 Hot Swap SATA/SAS Bays

**RAID Support:** RAID 0, 1, 10 with integrated ServeRAID M5110e

**PCI Expansion Slots :** Three

**Optical Drive :** One DVD Multiburner drive

**Network Interface Card:** Two Gigabit Ethernet Network Interface Cards

**Ports:** Four USB 2.0, one DB-15 video

**Operating System:** Windows 2008 R2 Enterprise Edition

**ANNEXURE G**

**Quotation**

(This must be submitted in envelope-3 as mentioned in Section-2.1)

COMPANY NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CONTACT PERSON: \_\_\_\_\_ PHONE NUMBER: \_\_\_\_\_

EMAIL: \_\_\_\_\_ WEB SITE: \_\_\_\_\_

**Cost Break Down:**

**Table - A : Cost**

#	Item/Description (1)	Quantity (2)	Unit Price (INR) (Excluding Taxes) (3)	Total Price (Excluding Taxes) (4)= (2)x(3)
<b>A. Trading Simulator Cost</b>				
1	Cost of subscription/license for usage of trading simulator application for four years	04		
2	Datafeed subscription for four years and one time installation charges	04		
3	Delivery, Installation and Configuration of the simulated trading system and all other services as indicated in section 3	01		
<b>B. Onsite Maintenance and Support Services for four years (in line with the terms and conditions as stated section 3.6 of the RFP)</b>				

REQUEST FOR PROPOSAL FOR SIMULATED MULTI-SEGMENT TRADING SYSTEM FOR NISM  
(Document Reference No: NISM/ICT/RFP/04/2013-14)

a. Monthly rate for first year onsite support service	12		
b. Monthly rate for second to forth year onsite support service	36		
TOTAL			

**Note : The supplier is required to provide applicable taxes (i.e. VAT, Service Tax, Local Body Tax and any other Tax ) separately on each of the above mentioned items.**

-----  
Signature of the Authorized Signatory of Company

Name:

Designation:

Contact no(mobile):

Email Id:

Company Seal:

## ANNEXURE - H

(This will be submitted 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 Seal:

---

**ANNEXURE - I**

(This will be submitted in envelope-1. 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.)

**Reference Letter**

**To whomsoever it may concern**

Date :

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

Dear Sir/Madam,

**Subject: Reference Letter**

This is to confirm that \_\_\_\_\_(Company name) did setup a trading simulator system in \_\_\_\_\_(month), \_\_\_\_\_(year) in our organization located in \_\_\_\_\_(city name).

Furthermore we are using the system since the time it was installed. The performance of the supplier was found to be satisfactory and post implementation support service was found to be very effective.

Thank you.

-----  
Signature of the Authorized Signatory of Company

Name:

Designation:

Contact no (mobile):

Email Id:

Company Seal:

**ANNEXURE - J**

**Checklist of items to be submitted in Envelope-1**

#	Items
1	EMD
2	Purchase orders as stated in Section 6.1
3	Copy of audited balance sheets as stated in section 6.2
4	Confirmation regarding scope of work as stated in <u>Annexure-B</u>
5	Reference Letters as per format given in <u>Annexure-I</u>

**Checklist of items to be submitted in Envelope-2**

#	Items
1	Cover letter as stated in Annexure-A
2	Company profile in the format as given in Annexure -H
3	Letter of commitment as per the format given in Annexure-D
4	CVs of proposed resources as per the format given in Annexure-E
5	Degree of fitness of the proposed trading simulator as per the format given in Annexure-D

**Checklist of items to be submitted in Envelope-3**

#	Items
1	Quotation in the format as given in Annexure -G.

.....X.....