

No. 3710/ABS/ICS
Government of India,
Ministry of Home Affairs,
NATIONAL CIVIL DEFENCE COLLEGE
(RASHTRIYA NAGARIK SURAKSHA MAHAVIDYALAYA)
NAGPUR-440 001

Dated 19th January, 2011

Tender

Cost of Tender Documents	<i>Rs. 1000=00</i>
Earnest Money Deposit (EMD)	<i>Rs. 1,40,000=00</i>

To,

M/s.

Dear Sirs,

Sub: Tender Enquiry in TWO BID systems for supply of “INTERACTIVE SIMULATION SYSTEM SOFTWARE”.

Tenders are invited in duplicate sets complying the requirement for this tender as detailed below to be submitted in your letterhead neatly printed / typed, duly signed by authorized person with Company's seal of the tenderer.

All envelopes containing the tenders shall be properly sealed. Envelopes Stapled shall not be accepted. All envelopes must be super scribed with tender number and due date of tender opening. The name and address of the tenderer must also be indicated on each envelope.

SUBMISSION OF TENDER	IN TWO BID SYSTEM	
Last date of submission of Offer	<i>11/02/2011</i>	<i>1400 hrs.</i>
Due date for opening of tender	<i>11/02/2011</i>	<i>1600 hrs.</i>

(Under unforeseen circumstances and if the due date falls on holiday, the tender will be received and opened on the next full working day at the same time.)

Requirement:

Sl. No	Description of ITEM	Quantity
1	As per specification in Annexure-I	<i>01 no.</i>

1. The offer shall be addressed to the Director, National Civil Defence College, Civil Lines, Nagpur and shall be submitted to the Head of Office, National Civil Defence College, 61/1, Temple Road, Civil Lines, Nagpur-440 001. The tender should be submitted in two parts i.e. Technical Bid and Commercial Bid. Both the envelopes should be sealed in separate covers before sealing in a common envelope marked “**TENDER FOR INTERACTIVE SIMULATION SYSTEM SOFTWARE**”.

2 A. Technical Bid should consist of:

- (i) Tender documents duly completed and signed but **WITHOUT INDICATING THE RATE QUOTED** and All relevant information asked in the General conditions of contract and the specifications proposed to be supplied.
- (ii) The infrastructure available for up-keep of the system during contract period.
- (iii) Compliance statements in respect of technical specification.
- (iv) The catalogue, Model offered along with the supporting original technical literature, drawing, Leaflets; Brochure etc. should be enclosed along with tender.
- (v) Relevant test/approval certificate to be attached.
- (vi) Details of warranty/terms and conditions, arrangements for after sale service in India and training if required by users.
- (vii) **Early Money Deposit for an amount of Rs.1, 40,000/- (Rupees One Lakh Forty Thousand only).**
- (viii) **Performance statement** performance statement for last three year i.e. details of supplies of tendered stores made to other organisation if any, indicating supply order No. date of supply and rate at which supplied duly signed by the authorized person.
- (ix) Any other relevant document which the firm wishes to submit

B. The Commercial Bid should consist of:

- i) The price bid should include the item wise prices along with taxes, duties and discount offer, if any, quoted by the bidder. These details should be submitted on their letter pad.
- ii) The contract price shall also include Excise Duty, Sales Tax, any other State or Central Government Taxes, duties including supply; installation and commissioning as applicable at the time of the supply of goods should be indicated separately in the offer itself.
- iii) The post warranty, annual maintenance charges should be quoted separately.
- iv) The words “**COMMERCIAL BID**” should be written clearly and prominently on this envelope along with Tender Number, Name of Stores & Date of Opening.

Note:

- a) The word “**Technical BID**” should be written clearly and prominently on the first cover along with tender number, name of stores and date of opening.
- b) Similarly the word “**Price BID**” should be written clearly and prominently on the second envelop along with tender number, name of store & date of opening.
- c) Full name and status of the person signing the tender documents must be clearly mentioned in the Tenders.

C. The technical tender will be opened in the presence of the bidders/ representatives. The Commercial tenders of those whose technical bid is acceptable will only be opened at later date to be communicated to them in due course of time.

D. Evaluation of the Proposal: A three stages procedure will normally be adopted.

Stage-I: Evaluation of Technical Bids.

Tenderers must ensure that they enclose all original technical literature and detailed documentary proofs which specifically bring out the compliance of the equipment being offered against the QRs/specifications. In case it is not possible to verify compliance of equipment offered due to lack of adequate documents no reference will be made to tenderer & the bid will not be considered further.

Stage-II:

If required- Functional Demonstration/ Physical evaluation of the stores found meeting the QRs in technical evaluation will be done to verify the compliance of the equipment with the laid down QR's. The tenderers will have to give such functional demonstration on no cost no commitment basis at a location specified by the purchaser. In case of imported Stores, no assistance whatsoever will be provided by the purchaser in any matter whatsoever and it will be the tenderers responsibility to submit the samples on the appointed date, time and place. No requests in any manner whatsoever shall be entertained in this case.

Stage-III: Financial Evaluation

The price bids of only those stores found acceptable in functional demo./trial shall be opened , evaluated and considered further. In case tender samples have been called with the tender, then stage-I and II shall be combined. It is in the tenderers interest to include all relevant and detailed technical data with their bid.

E. Octroi Charges:

The Department will issue the Octroi Exemption Certificate as the Government goods are exempted from the payment of Octroi Charges. The stores are required at Nagpur. Tender should be on F.O.R. Nagpur only.

F. Transit Insurance:

Transit insurance for the goods has to be arranged by the supplier and the insurance charges should be born by the supplier.

G. Validity:

The prices quoted must be firm during the tenure of the contract and the offer must remain valid for at least six months from the date of opening of the tender. Offer with a validity of less than **six** months will be liable for rejection without any further reference/correspondence.

H. Late Offer:

- a. A tender which has not been received on the due date and time will not be considered. No relaxation in this respect will be entertained.
- b. Tender sent through Telegram, Telex, Fax or Email will not be considered.

3. Earnest Money/Security Deposit: Earnest money as per Para 2 (A) (vii) should be deposited along with offer in the form of crossed Bank Draft or Bank Guarantee in favour of **the Director, National Civil Defence College**, and payable at **Nagpur, India**. An irrevocable bank guarantee of any nationalized schedule bank or reputed commercial bank of the tenderers country (in case of imported stores) in the format attached, and it should be accompanied with Technical bid in prescribed proforma otherwise the offer may be treated as invalid. Earnest money by way of cash deposit or in any other form will not be entertained. The Band Draft/Bank Guarantee should be valid for six months.

Note: Any tender not accompanied with earnest money in any one of the approved Forms, acceptable to the Purchaser, shall be rejected.

- a. **Earnest Money Deposit:** The earnest money without interest will be returned to the unsuccessful tenderer(s) within a period of 45 days. For successful tenderer, EMD will be refunded to the firm within 30 days of satisfactory execution of the contract. i.e. after receipt of the goods in full and good condition and satisfactory installation/commissioning at purchaser's site.
- b. **Security Money:** The value of Security Money to be deposited by the successful tenderer in the form of **Bank Draft / Bank guarantee of any scheduled bank or** An irrevocable bank guarantee of any nationalized schedule bank or reputed commercial bank of the tenderers country shall be 10% of the value of the awarded contract [**landed value**] for a period of One year within 30 days from award of contract. If the successful tenderer fails to furnish the security deposit as required in the contract within the stipulated period, the EM shall be liable to be forfeited by the purchaser. In case any unsatisfactory performance and / or contractual failure; the security money shall be forfeited.
- c. The EMD deposited is liable to be forfeited if the tenderer withdraws or amends impairs or derogates from the tender in any respect with the period of validity of his tender.
- d. **Performance Bank Guarantee:**

For Indigenous Order: The supplier should furnish PBG valid for 18 months to cover the warranty & guarantee period. The PBG should be for 10% of the order value including taxes duties etc to the F.O.R. destination price of the material on order. No payment will be made without submission of the performance guarantee.

For Import Order: The supplier should furnish PBG valid for 18 months to cover the warranty & guarantee period. The PBG should be for 10% of the order value by adding estimated amount of freight, Insurance, port charges & custom duty etc. as applicable as on date of opening price – bid, to the FOB price of materials on order.

4. The offer submitted by downloading from NCDC Website shall be considered valid only when accompanied by a Demand Draft drawn in favor of the *Director, National Civil Defence College* and payable at Nagpur towards the cost of Tender Documents indicated on the covering page of NIT. The bank draft should be enclosed with Bid-I i.e. Techno-Commercial Bid of Tender Documents. In case of non-submission of the tender fee as detailed above the tender shall be treated as non-responsive. The name of the party / person who downloaded the tender document on behalf of the tenderer is to be indicated by the tenderer.

5. Terms of Payment:

For Indian Stores

100% payment within 45 days against the pre-receipted bill for Indian manufacturers after receipt of an item/equipment in full and good condition and their successful installation/ commissioning at the purchaser's site,

For Imported Stores:

90% of price stores will be paid against an irrevocable letter of credit on presentation of shipping documents, Manufacturers Inspection Certificate,

Guarantee/Warranty Certificate, Country of origin Certificate from the Chamber of Commerce of the country or origin and other necessary documents (as mentioned in the supply order). Balance **10 %** will be paid after final acceptance and commissioning of the stores and submission of performance bond equivalent to 10% of order value in the form of a Bank Guarantee in the prescribed format valid from the date of Final acceptance of stores till the expiry of warranty period from date of installation and commissioning. **All bank charges outside India will have to be borne by the Vender.**

6. Inspection: Inspection of the stores supplied shall be done at Manufacturer's/ Supplier's place as decided by the College Authority. Inspection Notes on the stores being found acceptable by the Inspector, he shall furnish the supplier with necessary copies of inspection note duly completed, for being attached to the supplier's bill thereof. After the material is received at National Civil Defence College, Nagpur, it should be inspected again. The Director shall have full power to reject all or any portion that he considered defective or inferior in quality. The seller at his expenses shall immediately replace any portion of the contract work so rejected. If in the opinion of Director, the said material can be rectified, the supplier shall rectify at his own expenses and resubmit the rectified material for inspection.

7. Dispatch Instruction: The consignment should be dispatched on door delivery and on freight paid basis to the Director, National Civil Defence College, Nagpur as per supply order. Unloading/handling and transport of consignment in storage shed of the purchaser has to be arranged by the supplier and not by the Department.

a) For imported Stores.

- i) **Packing.** The supplier will ensure that the stores are securely packed to avoid damage in transit by Sea/Air/Rail/Road occasioned by any defect in packing. Shipping document should also show the name of the ultimate consignee. The supplier shall insert in each case packing list fully item wise to show the case number, contents, gross and net weight and cubic measurements & dimensions.
- ii) **Marking:** Each case shall have shipping marks stenciled on two opposite sides and on the top. In addition, the gross weight/net weight and cubic measurements should also be indicated on packages. The marks shall also be shown on invoices, packing list and on rail/road/bills of lading or mailing certificates exactly as they appear on the case & tenderers must also refer to the relevant provision of the important instructions to tenders attached with this schedule to tender.

8. Delivery:

i) The time for and the date of delivery of the stores stipulated in the 'Purchase Order' shall be deemed to be the essence of the contract and delivery of the stores must be completed by the date specified.

ii) If the execution of the contract / supply order is delayed beyond the period stipulated in the contract / supply order as a result of outbreak of hostilities, declaration of any embargo or blockage, or fire, flood, acts of nature or any other contingency beyond the suppliers' control due to act of God then NCDC may allow such additional time by extending the delivery period, as it considers to be justified by the circumstances of the case and its decision shall be final. If and when additional time is granted by the NCDC, the contract / supply order shall be read and understood as if it had contained from its inception the delivery date as extended.

9. Liquidated Damages: In the event of failure to execute the contract within the stipulated period mentioned in the order and in the event of breach of any of the terms and conditions in the order NCDC has the right:

- i) To recover from successful tenderer, as agreed liquidated damages, a sum not less than 0.5% of the contract value for delay in execution of the contract beyond the delivery schedule (for this purpose part of a unit supplied will not be considered) as aforesaid for each week or part of a week during which the execution may be in arrears limited to 10%. Where felt necessary the limit of 10% can be increased to 15% at the discretion of buyer
- ii) To purchase from elsewhere, after due notice to the successful tenderer, on the account and at the risk of the defaulting supplier the stores not supplied or others of a similar description without canceling the supply order in respect of consignment not yet due for supply or
- iii) To cancel the supply order or a portion thereof, and if so desired, to purchase the store at the risk and cost of the supplier and also
- iv) To extend the delivery period with or without imposition of Liquidated Damages as may be considered fit and proper. The penalty if imposed shall not be more than the agreed liquidated damages referred to clause (i) above.
- v) To encash any available Bank Guarantee / security deposit for recovery of the penalty.
- vi) The supplier shall not be entitled to any gain under this clause.

10. Guarantee/Warranty:

Except as otherwise provides in the invitation to the tender the contractor hereby declares that the goods, stores, articles sold/supplied to the purchaser under this contract shall be of the best quality and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/mentioned in the contract. The contractor hereby guarantee that the said goods/stores articles would continue to conform to the description and quality aforesaid for a period of twelve months, from the date of delivery of the said goods/stores/articles to the purchaser and notwithstanding the fact that the Purchaser (Inspector) may have inspected and/or approved the said goods/stores/articles, if during the aforesaid period of twelve months the said stores/goods/articles be discovered not to conform to the description and quality aforesaid or not giving satisfactory performance or have deteriorated, the decision of the purchaser in that behalf shall be final and binding on the contractor and the purchaser shall be entitled to call upon the contractor to rectify the goods/stores/articles or such portion thereof as found to be defective by the purchaser within a reasonable period or such specified period as may be allowed by the purchaser in his discretion on/an application made thereof by the contractor and in such an event, the above mentioned warranty period shall apply to the goods/stores/articles rectified from the date of rectification thereof. In case of failure of the contractor to rectify or replace the goods etc. within specified time, the purchaser shall be entitled to recover the cost with all expenses from the contractor for such defective stores.

- i) Guarantee that they will supply spare parts, if and when required on agreed basis for an agreed price. The agreed basis could be and including but without any limitation on agreed discount on the published catalogue or on agreed percentage of profit on the landed cost.
- ii) Warranty to the effect that before going out of production for the spare parts they will give adequate advance notice to the purchaser of the equipment, so that the latter may undertake the balance of the lifetime requirements.
- iii) Warranty to the effect that they will make available the blue prints of drawing of the spares if and when required in connection with the main equipment.

11. Excise Duty, Customs Duty and VAT etc.: If it intended to ask for Excise Duty, Custom Duty or VAT or any other charges extra the same must be specifically stated. In absence of such stipulations it will be presumed that prices are inclusive of all such charges and no claim for the same will be entertained.

12. Manufacturing & Financial Capability: Foreign suppliers should submit certificate/report from the chamber of Commerce of the country or Origin of the Manufacturers, indicating the technical, production and financial capability of the manufacturer. Original proforma invoice complete with Breakup prices and Quantum of Agency commission payable to Indian Agent must also be submitted.

13. Other General Terms and Conditions:

- i) If the tenderers are the authorized distributors of the Manufacturers, they are requested to enclose Photostat (Xerox) copy of the letter of their manufacturer appointing them as authorized distributor for marketing their product, duly attested.
- ii) The tenderers should clearly state in their offer that they/their principal possess valid license required under the Industrial Development & Regulation Act, 1981, wherever applicable and necessary, for material offered by them.
- iii) Packing list must contain item wise list of contents of each package, case, carts, quantity dispatched etc. Each package shall be numbered consecutively to indicate individual and total packing i.e. 1 of 2.2, etc.
- iv) All fax, telex, telegram messages from suppliers to the Director shall be confirmed by registered post.
- v) Tenderers holding valid Industrial License(s) under the Industrial Development and Regulation Act, 1981 should furnish the particulars of Industrial Income Registration Certificate.
- vi) Each page of the offer is to be signed and stamped by the tenderer and process should be indicated in figures & words.
- vii) In case of conflict in interpreting the conditions of the documents forming part of this enquiry, the decision the Director, National Civil Defence College, Nagpur shall be final and binding and accepted by the vendor.
- viii) All questions, disputes or differences arising in connection with contract shall be subject to the executive jurisdiction of the courts at Nagpur.
- ix) NCDC reserves the right to reject or accept or withdraw the tender in full or part as the case may be without assigning reasons thereof. No dispute of any kind can be raised against this right of buyer in any Court of law or elsewhere.
- x) Cancellation: In addition to his right to determine the contract upon fault of the vendor, the Director reserves the right to cancel the contract any time in whole or in part without assigning any reasons and the purchaser also reserves the right either to pay or not to the vendor either part of the contract work executed, if they are not according to purchaser's specifications and complete satisfaction.
- xi) Income Tax and Sales Tax Clearance Certificate may be furnished with the tender.
- xii) The vendor should indicate warranty period one/two year from the date of installation. Replacement of defective items will be born by the vendor at his own cost in case of any manufacturing defects. The vendors should also indicate post warranty annual maintenance contract service charges.
- xiii) The price bid should indicate the details as per the enclosed bid sheet proforma.
- xiv) Technical specification of the items required are given in **Annexure-I**
- xv) On breach of any terms and conditions of the contract or, by the contractor/tenderer, the Director, National Civil Defence College, Nagpur shall have the right to terminate the contract and to forfeit the EMD/Security Deposit. Further in the event of termination of the contract, the contractor shall have no claim for any compensation for loss in respect of any article or material collected or arrangement made by them.

xvi) Discount: Rate of discount if any, applicable (on basic price / landed price etc), should be clearly spelt out both in figures and words. However, no conditional discount will be considered for the purpose of evaluation of the offer (ranking).

14. Additional Requirements:

- a) The supplier has to arrange operational and maintenance training of equipment at National Civil Defence College for staff at their own cost for period of at least one week.
- b) Detailed specifications should be furnished for the item offered.
- c) A complete list of option utilities along with specifications and cost should be given.
- d) Installation and satisfaction operation of the equipment will be the responsibility of supplier.
- e) Adequate provision in respect of free services, warranty, up-gradation, maintenance and other facilities should be specified along with the technical bid.
- a) Important Note: During the warranty period stand by unit shall have to be arranged by the supplier if the unit could not be repaired within 24 hours of breakdown of the equipment, failing which the amount of **Performance Bank Guarantee** shall be forfeited.

15. Insurance: The purchase will not separately pay for transit insurance and supplier will be responsible till the entire stores contract for, arrive in good condition at the destination. The consignee must notify to the contract any loss or damage to the stores that may have occurred during transit as soon as possible but not later than 30 days of date of arrival of stores at the destination.

Format for Compliance Statement

Specify each and every point in a separate sheet about compliance.

Para of the tender enquiry specification	Specifications of the equipment offered	Compliance to T/E Specifications whether Yes or No	In case of Non-compliance, deviation from T/E specifications, to be indicated in unambiguous terms

PERFORMANCE STATEMENT FOR LAST THREE YEARS

Name of Firm: _____

1	2	3	4	5	6	7	8	9
Contract No.	Description of Stores	Quantity	Value	Original Delivery Period	Quantity supplied with Original DP	Last supply Position	Extd. DP/ Final DP	Present Position with reasons for delay

SIGNATURE OF THE TENDERER

THE PRICE BID SHOULD INDICATE THE FOLLOWING DETAILS

Description of items	Quantity	Unit	Discount if any	Excise Duty	Sales Tax	Packing and Forwarding charges	Freight charges/door delivery basis, (including at site)	Other charges
1	2	3	4	5	6	7	8	9

Note:

Please note that in case, offer does not clearly spell out the taxes and duties and any other charges, it will be presumed that the prices quoted are inclusive of all taxes and duties and other charges. The Director in this regard will seek no clarification.

A Representative may be deputed at the time of opening of the tenders.

16. Submission of offers for Imported Stores:

- a) Offers should be submitted by the tenderers on the basis of F.O.B./F.A.S. port of shipment of their Principals/Manufacturers/CIF, Indian Ports/F.O.R. The purchase reserves the right to place order on any such basis.
- b) Enlisted Indian Agent quoting on behalf of the Enlisted Principal/Manufacturer abroad on F.O.B /F.A.S/C.I.F basis should:-
 - (i) Certify that net prices are exclusive of commission, profit etc. to be paid to their principal/manufacturer in foreign currency and indicate separately the amount of remuneration/commission/profit which Indian agents are entitled in terms of their agreements with the foreign principal.
 - (ii) Produce their Principal's/manufacture's Proforma Invoice indicating the remuneration/commission/discount etc. to be allowed in the particular transaction, to their Indian agents;
- c) Foreign firms quoting direct against the enquiry and who have Indian Agents and/or servicing facilities in India should indicate in their offer the name of their Indian Agent or the representative they have for servicing in India. They should quote net F.O.B. /F.A.S. price.

EXCHANGE RATE VARIATION:

- a) Tenderers quoting for imported stores in rupees on forward delivery basis should base their prices on a rate of exchange according to T.T. Selling rate as quoted by any authorized Exchange Bankers supported by Reserve Bank of India and Ruling on the date of tender. The base date and rate of exchange adopted for the quotation should be invariable indicated in the tender.
- b) In the event of variation by more than 1 percent (up or down) between the base rate and the rate of remittance to foreign Principals, the contract prices (limited only to that portion of the F.O.R. prices that are required to be remitted according to the contractual terms to the firm's foreign principal in foreign currency) will be subject to adjustment (up or down) in accordance with the T.T. Selling rate of exchange as quoted by any authorized Exchange Bankers ruling on the date the payment is made by the firm to their principals abroad which should not be beyond two weeks from the date on which initial payment is made by the purchaser to the contractor. No variation in price will, however, be allowed if the variation in the rate of exchange remains within the limit of 1 per cent plus or minus.
- c) Any increase or decrease in the customs duty by reason of the variation in the rate of exchange will be to the buyer's account. No other charges will be affected by the change in the rate of exchange

Custom duty:

If it is intended to ask for custom duty or any other charges extra, the same must be specifically stated. In absence of such stipulation it will be presumed that prices are inclusive of all such charges and no claim for the same will be entertained.

For imported stores offered against forward delivery the tenderer shall quote prices thereof exclusive of custom duty. The tenderers shall specify separately the C.I.F. prices and total amounts of custom duty, if payable. They will also indicate correctly the rate of custom duty applicable along with Indian Customs Tariff Number. Custom duty as actually paid will be reimbursed on production of necessary documents i.e. (1) triplicate copy of the bill of entry, (2)

copy of bill of landing and (3) copy of the foreign principal's invoice.

Where, however, the tenderer imports the stores in question against his own commercial quota import license he will also be required to submit, in addition to the triplicate copy of Bill of Entry etc., a certificate from his Internal auditor on the bill itself to the effect that the following items/quantities in the Bill of Entry relates to stores imported against the contract number dated

Subsequent to the reimbursement of custom duty, the tenderer shall submit to the concerned Controller of Accounts, a certificate from his Statutory Auditor after the commercial audit of his account to that effect that he had not obtained any refund of the custom duty subsequent to the payment of duty to the customs authorities by him. In addition he shall also submit to the Controller of Accounts concerned from the firm's Director/Manager/Proprietor/Accountant immediately after a period of three months from the date of payment of the duty to the Custom Authorities to the effect that he has not applied for any refund of the custom duty subsequent to the payment of duty to the custom authorities by him.

In case the tenderer obtains any refund of custom duty subsequent to the payment of the same by him to the custom authorities and reimbursement of custom duty to him by the Controller of Accounts, he shall forthwith furnish the details of the refund obtained and afford full credit of the same to the purchaser.

PROFORMA FOR BANK GUARANTEE FOR SUBMITTING EARNEST MONEY
(ON BANK'S LETTER HEAD WITH ADDESSIVE STAMP)

Bank guarantee No:.....

Date:.....

To,

The Director,
National Civil Defence College
Govt. of India, Ministry of Home Affairs,
61/1, Temple Road, Civil Lines,
Nagpur-440001.

Dear Sir,

In accordance with your Invitation to Tender No
M/s..... hereinafter called the Tenderer
with the following Directors on their Board of Directors/Partners of the firm:

1		2	
3		4	
5		6	

Wish to participate in the said tender for the supply of
..... As a bank Guarantee against Earnest Money for a
sum of Rs..... (in words and figures)valid for 45 days from the
date of opening of Tender Viz..... is required to be submitted by the Tenderer as a
condition for the participation, this bank hereby guarantees and undertakes during the above said
period of (45days) Forty Five Days to immediately pay, on demand by Director National Civil
Defence College in writing the amount of.....(in words and
figures) without any reservation and recourse if:

- i. The tenderer after submitting his tender, modifies the rates or any of the terms and conditions therefore, except with the previous written consent of the purchaser.
- ii. The tenderer withdraws the said tender within 30 days after opening of tender, or
- iii. The tenderer having not withdrawn the tender, fails to furnish the correct security deposit imposed for due performance of the contract with the period provided in the General Condition of Contract.

The Guarantee shall be irrevocable and shall remain valid up to 45 days. If further extension to this guarantee is required, the same shall be extended to such required period on receiving instructions from M/s..... on whose behalf this guarantee is issued.

Date:.....

Place:.....

Witness:.....

Signature

Printed Name:.....

Designation:.....

(Banks Common Seal)

Signature of tenderer

Certificate to be signed by the Tenderer

Certificate

It is certified that I have read and understood and will comply all instructions contained in tender enquiry and its schedule. All pages of schedule to tender from page 1 to 12 have been properly filled and signed.

Signature of Tenderer: _____

Name in block Letters: _____

Name of Firm _____

Full Address _____

Telephone No: _____

Mobile No. _____

Fax No. _____

TENDER SPECIFICATION

INTERACTIVE SIMULATION SYSTEM SOFTWARE

1. OBJECTIVE

To identify and purchase a virtual reality-based, interactive simulation system that will be used to conduct training for Incident commander, Civil Defence, Safety and Fire Officers and their teams.

The simulator should have authentic Real-Time training scenarios with:

- No predetermined (or canned) outcomes.
- The simulation should respond solely to the action that the trainee takes.
- Interactive and dynamic team play,
- Three dimensional virtual environments
- True physics-based threat models and environmental effects.

Scenarios are based on real world possible incidents, so trainees make decision under realistic stressful conditions.

2. SCOPE

This procurement will be made for a complete software training system, to include the following:

- Complete software package, including all software required to operate the system in accordance with the requirements contained in this specification.
- Set of training scenarios in accordance with the specification requirements.
- Comprehensive Training Course for instructional personnel.
- Complete Documentation Package.
- Maintenance Support Program for software.

3. REQUIREMENTS

The proposed system must meet or exceed all of the requirements contained in this section.

3.1 SYSTEM CONFIGURATION

The proposed software training simulation system should include the following major features:

- Instructor Station software
- Incident Commander Station software
- Team Training Stations software
- Communications software
- Sound software

3.2 HARDWARE (to be provided by NCDC)

All hardware contained in the training system shall be Commercial-Off-The-Shelf (COTS) and state-of-the-art components. Complete Simulator system should consist:

- Instructor Station will include Custom Graphics Computer, monitor, radio, keyboard, and mouse – **01 no.**
- Incident Command Station will include projector, screen, podium, joystick, radio and Custom Graphics Computer – **01 no.**
- Team Training Stations – **03 no.**

There should be a provision for additional Team Training Station in case of requirement in future.

The three-dimensional environment should be there on the screen located in front of each training station. The image is a 40 x 30 degree view as seen from the trainee's viewpoint. Visuals are also configurable as full immersion screens, especially appropriate for IC station. Movement is controlled in real-time using the multi-axis joystick.

Simulator should utilize a directional, immersive sound system for each training station. The sounds represent real world sources -- environment, vehicles, people, fires, etc. and emanate from their appropriate direction to greatly enhance immersion into the synthetic environment. An integrated radio communications system allows trainers and trainees to issue and receive commands as they would during an actual incident.

3.3 SOFTWARE

The training system shall be a virtual-reality based training system, and shall provide trainees with a highly realistic, stressful environment in which they must make command decisions to manage and mitigate an emergency situation. Relevant Standard Operating Procedures and Emergency Operating Procedures shall be incorporated.

The training system shall allow for training to be conducted in the following areas of emergency response:

- Fire fighting
- Emergency preparedness
- Disaster management
- Risk assessment
- Emergency Plan Validation
- HAZMAT
- Terrorist mitigation
- Railway incidents

3.3.1 VISUAL DATABASE

The visual database shall be a geo-typical environment, and shall include an:

- Urban/downtown portion
- Commercial/industrial portion

The Simulator should provide a minimum of Thirty (30) response vehicles (Fire, Rescue, Police, and Medical). There should be a choice for specific vehicles from library, which will be part of their virtual environment, and there should be a provision for changing the colour and inserting logo/markings on the vehicles during the development stage. There should also be an option included for incorporation of customer's specific vehicles in the virtual environment.

In addition to the virtual environment, the following software components should be there as standard components:

GUI/Menu System: Instructor interface and the method by which he selects a scenario for a training exercise, begins the exercise and facilitates the commands given by the trainee. It should generate new scenarios or make modifications to existing ones. The GUI/Menu system can be provided in the customer's selected language.

Visual Model Behavior: This includes all the behaviors of the physical components contained in the simulation. For example, the Visual People simulation includes such behaviors as walking, running, sliding down an escape chute, climbing ladders, giving signals, etc.

There are many high- and low- level jobs that can be performed by the software models, some examples of the behaviors that can be performed include:

- Fight the fire
- Ride on truck
- Walk
- Suffer injuries
- Climb down ladder
- Deploy hand-line
- Establish triage area
- Remove injured

3.3.2 RESOURCE MODELS

The training system shall incorporate a variety of functional vehicle models, which shall be based on the actual vehicles utilized by the standard emergency response services. These vehicle models shall be realistically replicated, to include colors and markings, number of crew members, vehicle handling characteristics, and on-board equipment and agents. The training system shall include at least Thirty response vehicles.

In addition to the emergency response services vehicles, the training system shall incorporate at least sixty civilian vehicles, to include passenger cars, SUVs, cargo trucks, fuel trucks, and buses. The training system shall allow the instructor to place these vehicles at various locations around the incident location, and to select whether they are to be stationary or moving. The training system shall also include a minimum of one hundred civilian people models, which the instructor shall place at the beginning of the training exercise.

The instructor shall also have the ability to:

- Place casualties in the scenario
- Designate the level of injury (lightly injured, heavily injured, deceased).

The injury level of each of the people shall progress if they are not rescued and attended to by medical personnel.

3.3.3 USER INTERFACE

All aspects of the training systems' user interface shall be in the English language. The menu system shall be an easy-to-use, point-and-click type.

3.3.4 COMMUNICATIONS SYSTEM (NCDC will provide communication equipment)

The training system shall provide a means whereby the instructor and all of the trainees can communicate with each other throughout the duration of the training exercise. All communications shall be recorded for use in the debriefing session.

3.3.5 SOUND SYSTEM (NCDC will provide sound system hardware)

The training system shall incorporate an integrated directional, three-dimensional sound system. Sounds representative of real-world sources (fires, vehicles, people, etc.) shall emanate from their appropriate direction, based on where the trainee is located within the scene.

3.3.6 DEBRIEFING/REPLAY

The system shall incorporate the capability for performance of a debriefing session after a training exercise has concluded. The instructor shall have the capability to freeze the replay, fast forward to a specific point, and discuss with the trainees how taking another action would have changed the outcome of the exercise.

3.4 OTHER REQUIREMENT IN THE INTERACTIVE SIMULATION SYSTEMS SOFTWARE (ISSS)

- The ISSS should have the compatibility or provision for Multi Agency Operations with multiple trainees and large scale incidents.
- The ISSS should have the ability to deploy resources via simulation and instant drag and drop.
- The ISSS should be capable of networking for a larger setup and should have interactive training with trainee input per station and per set of stations.
- There should be a provision in the software to modify the existing exercises or to create new exercises.
- The ISSS should work on standard computers and laptops.
- The ISSS should be in a position to share the incident scenarios with other users.

3.5 INSTRUCTOR TRAINING

The contractor shall propose a training curriculum for training customer's instructional personnel in the operation and maintenance of the training system. The training course shall be conducted on site for at least five (5) instructional personnel.

3.6 DOCUMENTATION PACKAGE

The contractor shall supply three (3) sets of Operations and Maintenance Manuals, to include complete operating instructions, and maintenance procedures.

3.7 MAINTENANCE SUPPORT PROGRAM

The contractor shall provide a comprehensive Maintenance Support Program. This program shall include software warranty and support, software upgrades, and optional system and/or software enhancements. System software support must be available by modem.

3.8 WARRANTY

The supplier will provide a one (1) year warranty for all software and hardware components against any manufacturing defects.

3.9 HARDWARE

The NCDC will provide all types of hardware to run and perform the virtual simulation software.

IMPORTANT NOTES

- “The visual data base including area, railway, responder vehicles, responders and resource models shall be developed considering the Indian conditions and resources (Indian version).”
- **“The supplier should have supplied this kind of training simulation system to well renowned Disaster management authority and Fire Training Institute in the world.”**
 - **Enclose the Creditentials of the supply.**
