

TENDER ENQUIRY

Tele : 0265-2781762/2186
Fax : 0265-27883691

Electronics and Mechanical
Engineering School
Pin - 900 416
C/O 56 APO

80408/RP/CBT/FWT/Trg – 3

28 Apr 2008

**TENDER ENQUIRY FOR PROCUREMENT OF COMPUTER BASED TRAINING AID (CBT) ON OP
DEVICE SOLTAM, PNEUMATIC RAMMER SYS SOLTAM, GM 7.62 MM PKT AND 12.7 MM DSZK
FOR
FACULTY OF WEAPON TECHNOLOGY, EME SCHOOL, VADODARA**

Sir,

1. EME School, Vadodara, hereinafter referred to as Customer, is interested in development of "Computer Based Training Packages" of **Op Device of Soltam, Pneumatic Rammer sys Soltam, GM 7.62 mm PKT and GM 12.7 mm DSZK** for Faculty Of Weapon Technology, EME School, Vadodara. The following points may please be adhered to while filling the bids:-

- (a) Terms and condition and user specification are attached as Appx A and B. Information as required is given in Appx C & D and the same will be submitted along with the tender. All sheets will be submitted duly affixed the stamp of the company and signature of the authorised signatory of the company. Additional sheets, duly authenticated, may be attached to elucidate specifications or clarify issues.
- (b) Quotation should be sent only in sealed envelop super scribing the tender Enquiry No, opening date and name of the firm.
- (c) The costs to be indicated for each item should be the landed cost of the item, inclusive of all taxes, levies freight etc.
- (d) Total costs for the full quantity to be supplied will be indicated.
- (e) The total cost for full quantity to be supplied will be indicated both in figures and words.
- (f) Incomplete tender is liable to be rejected.
- (g) The following information is also required to be furnished in the tender documents:-
 - (i) CST/LST No
 - (ii) Income Tax Registration No
 - (iii) PAN
 - (iv) Vendor postal address and Telephone No

2. Technical and Commercial offers will be submitted on specific formats enclosed with this document in **separate envelopes** marked "Technical offer" and "Commercial offer" respectively giving reference of this tender on the envelop (Appx C & D).

3. You are requested to indicate your acceptance of the above offer based on the terms and conditions as given out in the succeeding paragraphs.

4. **Delivery and Implementation Schedule.** The project will be implemented under the following phases: -

(a) **Requirements Analysis**

(i) **Entry Criteria**

- (aa) Start of the Project
- (ab) Detailed System Requirements

(ii) **Activities**

- (aa) Analyse the Content
- (ab) Preparation of CBT Script & Layout

(iii) **Deliverables.** CBT Script & Layout

(b) **Visualizing and Scripting**

(i) **Entry Criteria.** CBT Script & Layout

(ii) **Activities**

- (aa) Identifying story online, detailed story boarding
- (ab) Design of
 - Scripts
 - Graphics
 - Animation (2D&3D)
 - Video
 - Voice-overs (Bilingual – English & Hindi)
 - Examples of frequently occurring faults & their symptoms
 - Interactive exercise
 - Finalize the Deliver environments
 - Integration of all media
 - Validate the proposed Concepts/Technology
 - Submit the deliverables

(ac) **Deliverables.** CD on content creation progress

(c) **Testing & Acceptance**

(i) **Entry Criteria.** Beta Version signed-off.

(ii) **Activities.** To complete acceptance test

(iii) **Deliverables.** Set-up CD (1+6 Copies) for installation and all programming data/codes used for developing the CBT.

5. **Software Maintenance.** In order to ensure functionality of the CBTs the vendor should provide software maintenance. During the period of warranty the vendor will ensure that the CBTs continues to perform in exactly the same manner as at the time of acceptance.

6. **Acceptance Testing.** The software system will be subjected to a detailed acceptance testing procedure including installation of Beta version. The details of the procedure will be worked out jointly by the vendor and the user. The specifications of the software should be in conformity with the details provided as per the given specifications. The users would issue an acceptance certificate

on successful completion of acceptance testing. The date of issuing the acceptance certificate would be deemed to be the date on which the warranty will commence.

Warranty and Maintenance Backup

7. **Warranty.** Vendor will provide free on site comprehensive warranty for one year from date of acceptance on the complete software (CBTs). During warranty the vendor will repair/replace CBTs without any cost. During the period of warranty, the vendor will maintain the software developed and remove all the bugs so encountered in the running of software as per specifications. During the warranty period all warranty benefits received by you from the OEMs will be passed on to the Buyer. The Buyer may invoke the bank guarantee in case you fail to ensure rectification of defects within 06 days of the defect being intimate to you. Vendor will ensure 95 % software availability during the warranty period.

Conditions during warranty.

8. The CBTs should fulfil following conditions during the warranty: -

- (a) Any failure in the software thereof should be rectified within a maximum period of 06 days of lodging a complaint, on site. Vendor will ensure 95% software availability during warranty period.
- (b) If the system remains down more than 06 days, penalty at the rate of Rs 250/- (Rupees Two hundred and fifty only) per day per package will be charged or recovered out of the Bank Guarantee held toward warranty. In case of any software package being down for more than seven working days, user has the option to get it rectified from any suitable agency at your risk and cost which will be deducted from the Bank Guarantee due to you.
- (c) Any software failing three times within period of three months or displaying chronic faulty behaviour or development defects or quality control problems will be totally replaced by you at your risk and cost within 30 days of being intimated.
- (d) In case of failure, the downtime will commence after one full working day after informing your 'Customer support Department'. If you fail to rectify the defect even after expiry of six days from the defect notified, Customer will get it rectified by a third party without affecting your obligation for maintenance of the software under this contract. Payment thus made to third party will be deducted from the amount due to you under this contract.
- (e) Maintenance of software shall cover restoration, debugging and updating of software including amendments of technical documentation issued earlier free of cost.
- (f) Vendor's obligations of maintenance for any repair services are limited only to the equipment and software listed in all the Annexure to Appendix A.

9. **EMD.** An earnest money is required to be deposited as indicated in Appx C (Technical Bid) in the form of crossed demand draft in favour of Commandant, EME School and should accompany the Technical Bid in sealed cover. Earnest Money will be accepted only through a bank demand draft drawn in favour of the Commandant, EME School, Vadodara payable at Vadodara. In the eventuality of the firm backing out on its submitted offer, the EMD will be forfeited without any obligation what so ever to EME School/ Army/ Govt of India. The EMD in respect of the firm to whom the contract is awarded will only be refunded on receipt of Bank Guarantee. No interest of handling charges shall be paid while refunding the EMD to the firm. **EMD should be accompanied with Technical Bid.**

10. **Performance Bank Guarantee.** 5 % of the complete cost of project shall remain under Bank guarantee till the expiry of the warranty as performance warranty. The vendor shall furnish a performance Bank Guarantee equal to five percent (5%) of the total value of the contract within fourteen days of the receipt of supply order from Public Sector Bank. In case of non-adherence to the deliver schedule for all deliverables of the project as given above in para 5, liquidated damages as given in para 12 and 13 of terms and conditions, will be deducted from this amount. Bank guarantee will be valid till expiry of the warranty.
11. **Training.** Vendor will provide all necessary trg to effectively utilize the software package as required by the user.
12. **Uptime.** Vendor will guarantee to provide 95% uptime for the software (CBT's) during the warranty and subsequent AMC if signed. In case of failure to maintain specified uptime the proportionate loss to the government will be made good by you. Alternatively warranty may be extended by the duration for which the company has been unable to provide specified uptime. The discretion to exercise either of these options lies with the EME School. Bank Guarantee submitted, as performance guarantee will be extended accordingly in case of extension of warranty period.
13. **Software/Content Updates.** Vendor will guarantee provision of all software updates, depending upon the option to be exercised by the user, for a period for five years after expiry of warranty period on chargeable basis. However, if the upgrade is free from OEM, the same will be passed to the user free of cost. If the user desires any addition/alteration of contents of the CBT the same will be undertaken by the vendor on chargeable basis of only the extra effort involved.
14. **Submission of Offers**
- (a) Vendors are requested to submit their offers in two separate parts, i.e. **Technical and Commercial.** Technical and Commercial offers will be submitted separately. Certificate to be signed and stamped by Authorised signatory of company is also attached as Appendix E. The vendor must submit the company's profile along with the bid.
- (b) The CBT's developed should be strictly as per the Script supplied by the user mentioned at Appx F.
- (c) Vendors should ensure that their bids are complete in all respects. Vendors should clearly mention the need for any additional hardware/software component required in the specifications.
- (d) The commercial quotations of only those firms shall be opened whose technical bid meets the requisite qualitative and technical specifications, the decision of which rests exclusively with Commandant, EME School and the Technical Evaluation Committee (TEC). The commercial quotations of the valid bidders will tentatively be opened on **26 May 2008 at 1200 hrs** in presence on the bidders who wish to be present. The lowest valid bidder only will be intimated to attend the Price Negotiation Committee (PNC) meeting scheduled tentatively on **28 May 2008 at 1200 hrs** at Faculty of Weapon Technology, EME School Baroda.
- (e) Quotations arriving late i.e. due to late tenders, delayed tender and post tender offers will not be considered.
- (f) The rates must be quoted for the complete CBT .

(g) Rates quoted must be exclusive of sales tax /Excise duty /Packing and forwarding charges etc. Sales Tax / Exercise duty / Packing & forwarding charge will be quoted separately, if applicable.

(h) Any alternation / deletion of rates must be attested by Vendor's Signatures and failure to do so will make the quotation liable for rejection. Preferably the quotations should be free from any deletion / alternations.

(j) Your quotation should bear CST and State sale tax numbers. IT No. should be duly printed / affixed with a rubber stamp only.

(k) Bids to be addressed to: -

**Commandant
EME School
Vadodara-390008**

(l) Rates must be valid for acceptance upto **31 Mar 2009** or upto 3 months after opening of commercial bids whichever is earlier.

(m) No complaints against rates will be accepted once the quotation has been accepted.

(n) Once the supply order is placed, it will be the Vendors responsibility to make the software (CBT's) available. Any additional cost incurred in development of software for which the vendor has not bid at the time of submission of the final offer will be borne by the vendor.

(p) Quotation should be in a sealed envelope. Outside the envelope the reference of this enquiry, due date, time for opening, name and address of the firm should be clearly written.

(q) An offer received incomplete or ambiguous is likely to be rejected at the discretion of the EME School, Baroda without recourse to further clarifications. The EME School, Baroda also reserves the right to seek clarifications with one or more vendors if considered necessary and also not accept any offer at all in case they are not reasonably priced.

(r) Any conditions/terms given in the technical or commercial bids by vendors will not be binding on the EME School, Baroda. All the terms and conditions for the supply, delivery, testing and acceptance, payment, warranty, uptime, penalty will be as given herein and no change in any term or condition by the vendors will be acceptable, Alternations, if any in the tender document should be attested properly by the vendor, failing which the tender will be rejected. Vendors will not make any assumptions while submitting their bids. If required, clarifications will be sought prior to submission of bids.

(s) All prices will be landed costs, exclusive of all taxes, freights etc. All items, for which excise duty is applicable, will be specified in the commercial bid. Vendor will be responsible to produce excise duty certificate in respect of all such items, whether manufactured by the vendor or otherwise.

(t) Terms and conditions for the procurement are attached as Appendix A. These will be signed by the authorised company representative and stamped with company stamp.

(u) An amount of Rs 100/- (Rupees One Hundred only) is required to be deposited as as document charges in the form of crossed demand draft in favour of Commandant, EME School and should accompany the Technical Bid in sealed cover.

15. Vendors can visit the undersigned for any clarification before tendering their quotations on any working days between 1000h to 1300h. The user Specification requirement as per Appx 'B' for each CBT (Computer Based Training) Package to be developed will be made available along with the Tender Enquiry.

16. You are requested to send your best offer in the office of the undersigned within **twenty five days** from date of issue of this tender document but latest by **1400hrs on 25 May 2008**. Any offer received after this may be rejected at the discretion of the EME School, Baroda.

17. Please ensure that this is your best and final offer.

Yours faithfully,

(Jayanta Misra)
Col
CO, FWT
for Commandant
EME School, Baroda

TERMS AND CONDITION

1. The development of CBTs should be strictly as per the script supplied by the user.
2. Delivery of the stores is to be made by supplier at the destination, EME School under his own arrangements/cost.
3. Commandant, EME School, Baroda reserves the right to place the order for 100% or part quantity.
4. **Rates should be quoted in figures as well as in words on firm & fixed basis and no price increase will be permitted.**
5. The last date and time for receiving the tender at EME School, Baroda, is **25 May 2008, 1400** hrs, after which no tender will be accepted.
6. **Validity.** Quotations must be valid for acceptance for a period of 90 days from the date of opening of Tender or upto three months from the date of submission of tender whichever is later.
7. The tender form must be returned duly signed having read the terms & conditions before scheduled date of opening of tender.
8. Quotations must be given strictly for items as per our specifications.
9. **Delivery period**
 - (a) Delivery of all software (CBT Packages) for acceptance should be given within **15 weeks** of placement of supply order or before **31 Mar 2009** whichever is earlier at EME School, Vadodara.
 - (b) All the software should be installed at the loc specified within one **week** of delivery or date decided by EME School, Vadodara.
10. **Acceptance Testing.** The system will be subjected to detailed acceptance testing by the user at place decided by user. The user would issue acceptance certificate on successful completion of acceptance testing. The date of issuing of acceptance certificate would be deemed to be the date on which the warranty will commence.

11. **Inspection of Stores:**

- (a) Stores & content of CBTs supplied by the vendor will be inspected by a board of officers constituted by the Commandant EME School, Baroda, at the destination place with reference to the specification mentioned in the Tender Enquiry documents.
- (b) Rejected stores/ CBT's will be replaced by the supplier immediately at his own arrangements /costs.

12. **Liquidated Damages.** In the event of vendor's failure to deliver the CBTs within the stipulated delivery period in accordance with this supply order, liquidated damages at the rate of **0.5** percent of the total value of the supply order for each complete week or part thereof subject to max of 5% will be deducted from the amount of the supply order. Thereafter customer will have the right to terminate the Supply Order and encash the bank guarantee given for acceptance of the Supply Order.

13. **Method of Payment of Liquidated Damages.** The amount charged as liquidated damages shall be deducted by the purchaser from the amount due for payment to the vendor. If the amount of such liquidated damages exceeds the payment due to the contractor, he shall within 30 days make a payment to the purchaser in full and final settlement of claims.

14. **Force Majeure.** In the event of the vendor being prevented from delivering the supplies and services on the scheduled deliver date due to the act of God, acts of war, blockades, embargos, epidemics, revolutions, strikes, lockouts, floods, fires, major accidents resulting in damage of supplies or other similar events of the same nature or reason beyond your control such delays shall constitute excusable delay provided: -

- (a) Notice is given to the Commandant EME School, Baroda, (purchaser) within 15 days of the occurrence and cessation of such event.
- (b) If it can be established by you with documentary evidence, to the satisfaction of the sponsor that the above events
 - (i) Have delayed the performance of work.
 - (ii) Were beyond your reasonable control then the time for the delivery shall be extended by a period not more than duration of such events.

15. **Arbitration.** Any dispute, disagreement or question arising out of or relating to the contract except as to any matters, decision whereof is specifically provided for in this contract to be final which cannot be settled amicably shall within 60 days (or such longer period as may be mutually agreed upon) from the date of which either party informs the other in writing finally be settled by arbitration by sole arbitrator appointed by the Commandant, EME School, Baroda, in accordance with the Indian arbitration Act 1940 so that desired completion of item is carried out to the satisfaction of sponsor pending final decision of such arbitration in, the parties shall proceed diligently with performance of contract. The parties shall continue to perform the obligation under this contract during the arbitration proceedings except for such matters, which are the subject matter of arbitration proceedings the arbitration shall be held at the place and time decided by the arbitrator.

16. **Time limit for Arbitration.**

- (a) If no request in writing for arbitration is made by the vendor/ contractor within a period of six months from the date of completion of the contract, all claims of the contractor under the

contract shall be deemed to be waived and absolutely barred by Commandant, EME School, Baroda, executing the contract for on behalf of President of India, shall be discharged and released of all his liabilities under the contract.

(b) The completing of contract means and including:-

- (i) The date when the stores are delivered according to the terms of delivery.
- (ii) In case where the letter of cancellation for whole or any part of contract is issued by purchaser.

17. **Jurisdiction of Civil Court.** The Civil court at Vadodara shall only have the jurisdiction to try all civil suits, legal proceedings, arising out of or in any way touching or concerning this contract.

18. This tender enquiry does not guarantee for placement of supply order.

19. **Payment Terms and Mode of Submission of Bills**

(a) 100% payment shall be made by the Principal CDA, Pune on receipt of complete CBTs only after Acceptance Test Procedure (ATP) is certified by a board of officers and acceptance certificate is issued.

(b) The payment will be made through ECS by the PCDA for this purpose you are required to submit ECS Mandate at the time of acceptance of supply order.

20. **Mode of Preparation of Bill.**

(a) Bills should be submitted in duplicate, duly pre receipted on the prescribed bill forms only with all certificates duly signed.

(b) Bill should bear your bill No and date.

(c) Original copy of bill should be pre receipted on revenue stamp. Both original and duplicate bills should bear firm's rubber stamp.

(d) Bills should be signed in ink only.

(e) Description of stores should be mentioned exactly as shown in the Annexure I of Appx A.

(f) Full details of inspection note, RR/ delivery Challan No should be mentioned in the bill.

(g) Tenders for which the payment has been claimed in the bill, should tally with the Tenders in Challan and inspection notes. If any of the above conditions are not simultaneously satisfied to meet the audit requirements the bills will be returned to the supplier.

21. Tenderers are required to furnish certificate as attachments as Appx E. Certificate to be signed and stamped by authorised signatory of the firm/ company.

22. Tender will be opened on **26 May 2008** at 1200 hrs in the presence of vendors/firms representative.

Appx B

(Ref Para 1(a) of tender document)

USER SPECIFICATION REQUIREMENT

1. The User Specification requirement of the CBTs is as per following details:
 - (a) OP DEVICE OF SOLTAM - Annexure I to Appx B
 - (b) PNEUMATIC RAMMER SYS SOLTAM - Annexure II to Appx B
 - (c) GM 7.62 mm PKT - Annexure III to Appx B
 - (d) GM 12.7 mm DSZK - Annexure IV to Appx B

USER SPECIFICATION REQUIREMENT: OP DEVICE OF SOLTAM

1. EME School is a premier training institution of the Indian Army. Apart from Young officers PG level courses for EME officers, Diploma, upgrading and basic courses in Armament, Small Arms, Instruments, Automobiles, Engineering equipment and Electrician for PBOR of the Corps of EME are conducted in the EME School. **OP DEVICE OF SOLTAM** being complex in nature is taught in a detailed manner to all trainees at Faculty of Weapon Technology, EME School, Baroda.
2. A CBT package on **OP DEVICE OF SOLTAM** will therefore be of immense use explaining the concepts in an animated / graphical manner.

PROPOSED COMPUTER BASED TRAINING AID

3. CBT developed should be capable of being run over the network or from the CD Server in the Faculty. It should include all features of Audio and Animation supported by simple text to make learning an interesting experience. The language used should be simple and where difficult words are used the meaning should be amplified and if required even explained with help of Hindi Words. Option for audio in simple spoken Hindi should also exist. The various features desired are as follows: -
 - (a) The CBT package will be delivered in a set of CDs consist of one original & six duplicate copies.
 - (b) The CBT should be interactive.
 - (c) Should have 2D, 3D modelling with sectionised views as per user's requirement.
 - (d) Working principle of all systems to be illustrated schematically & functionally.
 - (e) The flow of information in the CBT should cover the following:-
 - (aa) Introduction
 - (ab) Principle of working
 - (ac) Components of the system/Sub system
 - (ad) Trouble shooting
 - (ae) Self evaluation
 - (f) Bilingual voice over in Hindi and English.
 - (g) **Hardware requirements.** The program should be able to run on a PC with a minimum configuration of 500 MHz Pentium processor, 64 MB RAM having graphics card, sound card and speakers and a 640x480 screen resolution with minimum 256 colours.
 - (h) **Software Interaction.** The product should require no additional software & run on current operating system of windows (Windows 98, ME, XP, NT etc). Any special drivers or software required should be bundled in the package and provided in the same CD.
 - (j) Upon accessing the CBT, the user should be able to choose the subject or topic of his choice and proceed accordingly.
 - (k) User should be guided by voice or text message.

(I) Any other additional feature which is mandatory for the smooth running of the package to be mutually decided between the developer and user.

4. Subject wise features desired for each topic is given in various Annexures of Appx F attached.
5. Duration of CBT to be sufficient to cover the subject as per user requirement.
6. The CBT will finally be delivered along with the backup programme, source codes, and all material used for content development.

USERS OF PROPOSED SYSTEM

7. The CBT can be used by Faculty of Weapon Technology, EME School Baroda in stand alone mode and on any computer network in client server configuration. The trainees with a basic knowledge of operating software should be able to operate CBT independently.

USER SPECIFICATION REQUIREMENT: PNEUMATIC RAMMER SYSTEM SOLTAM

1. EME School is a premier training institution of the Indian Army. Apart from Young officers PG level courses for EME officers, Diploma, upgrading and basic courses in Armament, Small Arms, Instruments, Automobiles, Engineering equipment and Electrician for PBOR of the Corps of EME are conducted in the EME School. **PNEUMATIC RAMMER SYSTEM SOLTAM** being complex in nature is taught in a detailed manner to all trainees at Faculty of Weapon Technology, EME School, Baroda.
2. A CBT package on **PNEUMATIC RAMMER SYSTEM SOLTAM** will therefore be of immense use explaining the concepts in an animated / graphical manner.

PROPOSED COMPUTER BASED TRAINING AID

3. CBT developed should be capable of being run over the network or from the CD Server in the Faculty. It should include all features of Audio and Animation supported by simple text to make learning an interesting experience. The language used should be simple and where difficult words are used the meaning should be amplified and if required even explained with help of Hindi Words. Option for audio in simple spoken Hindi should also exist. The various features desired are as follows: -

- (a) The CBT package will be delivered in a set of CDs consist of one original & six duplicate copies.
- (b) The CBT should be interactive.
- (c) Should have 2D, 3D modelling with sectionised views as per user's requirement.
- (d) Working principle of all systems to be illustrated schematically & functionally.
- (e) The flow of information in the CBT should cover the following :-
 - (aa) Introduction
 - (ab) Principle of working
 - (ac) Components of the system/Sub system
 - (ad) Trouble shooting
 - (ae) Self evaluation
- (f) Bilingual voice over in Hindi and English.
- (g) **Hardware requirements.** The program should be able to run on a PC with a minimum configuration of 500 MHz Pentium processor, 64 MB RAM having graphics card, sound card and speakers and a 640x480 screen resolution with of 256 colours.
- (h) **Software Interaction.** The product should require no additional software & run on current operating system of windows (Windows 98, ME, XP, NT etc). Any special drivers or software required should be bundled in the package and provided in the same CD.
- (j) Upon accessing the CBT, the user should be able to choose the subject or topic of his choice and proceed accordingly.

(k) User should be guided by voice or text message.

(l) Any other additional feature which is mandatory for the smooth running of the package to be mutually decided between the developer and user.

4. Subject wise features desired for each topic is given in various Annexure of Appx F attached.

5. Duration of CBT to be sufficient to cover the subject as per user requirement.

6. The CBT will finally be delivered along with the backup programme, source codes, and all material used for content development.

USERS OF PROPOSED SYSTEM

7. The CBT can be used by Faculty of Weapon Technology, EME School Baroda in stand alone mode and on any computer network in client server configuration. The trainees with a basic knowledge of operating software should be able to operate CBT independently.

USER SPECIFICATION REQUIREMENT: GM 7.62 MM PKT

1. EME School is a premier training institution of the Indian Army. Apart from Young officers PG level courses for EME officers, Diploma, upgrading and basic courses in Armament, Small Arms, Instruments, Automobiles, Engineering equipment and Electrician for PBOR of the Corps of EME are conducted in the EME School **GM 7.62 MM PKT** being complex in nature is taught in a detailed manner to all trainees at Faculty of Weapon Technology, EME School, Baroda.
2. A CBT package on **GM 7.62 MM PKT** will therefore be of immense use explaining the concepts in an animated / graphical manner.

PROPOSED COMPUTER BASED TRAINING AID

3. CBT developed should be capable of being run over the network or from the CD Server in the Faculty. It should include all features of Audio and Animation supported by simple text to make learning an interesting experience. The language used should be simple and where difficult words are used the meaning should be amplified and if required even explained with help of Hindi Words. Option for audio in simple spoken Hindi should also exist. The various features desired are as follows: -

- (a) The CBT package will be delivered in a set of CDs consist of one original & six duplicate copies.
- (b) The CBT should be interactive.
- (c) Should have 2D, 3D modelling with sectionised views as per user's requirement.
- (d) Working principle of all systems to be illustrated schematically & functionally.
- (e) The flow of information in the CBT should cover the following :-
 - (aa) Introduction
 - (ab) Principle of working
 - (ac) Components of the system/Sub system
 - (ad) Trouble shooting
 - (ae) Self evaluation
- (f) Bilingual voice over in Hindi and English.
- (g) **Hardware requirements:** - The program should be able to run on a PC with a minimum configuration of 500 MHz Pentium processor, 64 MB RAM having graphics card, sound card and speakers and a 640x480 screen resolution with minimum 256 colours.
- (h) **Software Interaction.** The product should require no additional software & run on current operating system of windows (Windows 98, ME, XP, NT etc). Any special drivers or software required should be bundled in the package and provided in the same CD.
- (j) Upon accessing the CBT, the user should be able to choose the subject or topic of his choice and proceed accordingly.

- (k) User should be guided by voice or text message.
 - (l) Any other additional feature which is mandatory for the smooth running of the package to be mutually decided between the developer and user.
4. Subject wise features desired for each topic is given in various Annexures of Appx F attached.
 5. Duration of CBT to be sufficient to cover the subject as per user requirement.
 6. The CBT will finally be delivered along with the backup programme, source codes, and all material used for content development.

USERS OF PROPOSED SYSTEM

7. The CBT can be used by Faculty of Weapon Technology, EME School Baroda in stand alone mode and on any computer network in client server configuration. The trainees with a basic knowledge of operating software should be able to operate CBT independently.

USER SPECIFICATION REQUIREMENT : GM 12.7 MM DSZK

1. EME School is a premier training institution of the Indian Army. Apart from Young officers PG level courses for EME officers, Diploma, upgrading and basic courses in Armament, Small Arms, Instruments, Automobiles, Engineering equipment and Electrician for PBOR of the Corps of EME are conducted in the EME School. **GM 12.7 MM DSZK** being complex in nature is taught in a detailed manner to all trainees at Faculty of Weapon Technology, EME School, Baroda.
2. A CBT package on **GM 12.7 MM DSZK** will therefore be of immense use explaining the concepts in an animated / graphical manner.

PROPOSED COMPUTER BASED TRAINING AID

3. CBT developed should be capable of being run over the network or from the CD Server in the Faculty. It should include all features of Audio and Animation supported by simple text to make learning an interesting experience. The language used should be simple and where difficult words are used the meaning should be amplified and if required even explained with help of Hindi Words. Option for audio in simple spoken Hindi should also exist. The various features desired are as follows: -

- (a) The CBT package will be delivered in a set of CDs consist of one original & six duplicate copies.
- (b) The CBT should be interactive.
- (c) Should have 2D, 3D modelling with sectionised views as per user's requirement.
- (d) Working principle of all systems to be illustrated schematically & functionally..
- (e) The flow of information in the CBT should cover the following:-
 - (aa) Introduction
 - (ab) Principle of working
 - (ac) Components of the system/Sub system
 - (ad) Trouble shooting
 - (ae) Self evaluation
- (f) Bilingual voice over in Hindi and English.
- (g) **Hardware requirements.** The program should be able to run on a PC with a minimum configuration of 500 MHz Pentium processor, 64 MB RAM having graphics card, sound card and speakers and a 640x480 screen resolution with minimum 256 colours.
- (h) **Software Interaction.** The product should require no additional software & run on current operating system of windows (Windows 98, ME, XP, NT etc). Any special drivers or software required should be bundled in the package and provided in the same CD.
- (j) Upon accessing the CBT, the user should be able to choose the subject or topic of his choice and proceed accordingly.

(k) User should be guided by voice or text message.

(l) Any other additional feature which is mandatory for the smooth running of the package to be mutually decided between the developer and user.

4. Subject wise features desired for each topic is given in various Annexures of Appx F attached .
5. Duration of CBT to be sufficient to cover the subject as per user requirement.
6. The CBT will finally be delivered along with the backup programme, source codes, and all material used for content development.

USERS OF PROPOSED SYSTEM

7. The CBT can be used by Faculty of Weapon Technology, EME School Baroda in stand alone mode and on any computer network in client server configuration. The trainees with a basic knowledge of operating software should be able to operate CBT independently.

ACCEPTANCE CERTIFICATE

It is certified that all the points specified in the Tender Enquiry letter No 80408/RP/CBT/FWT/Trg – 3 dt 2008 and the terms and conditions for Development of Computer Based Training (CBTs) aid on **Op Device of Soltam, Pneumatic Rammer sys Soltam, GM 7.62 mm PKT and GM 12.7 mm DSZK** attached there to are acceptable to us and we will abide by the same.

Company Seal

(Authorised signatory of company)

TECHNICAL BID: DEVELOPMENT OF COMPUTER BASED TRG AIDS

1. The Technical Bids for the development of CBTs should be submitted as per the forms attached as Annexure I to IV of Appx C. The details of Annexure are as follows:-

S No	Description	Qty	EMD (Rs)	Reference
(a)	OP DEVICE OF SOLTAM	01	400.00	Annexure I to Appx C
(b)	PNEUMATIC RAMMER SYS SOLTAM	01	600.00	Annexure II to Appx C
(c)	GM 7.62 mm PKT	01	1800.00	Annexure III to Appx C
(d)	GM 12.7 mm DSZK	01	1800.00	Annexure IV to Appx C

TECHNICAL BID: DEVELOPMENT OF COMPUTER BASED TRG AID ON
“OP DEVICE OF SOLTAM”

1. Technical offer will be given strictly as per the User Specification Requirements as attached at Annexure I of Appx B. Any deviation/addition will be brought out clearly by the vendor. This being turnkey project, development of this will be treated as one project only.
2. For submitting the Technical Bid the following should be answered and considered in detail:

Ser No	Requirements/Questions	Yes/No
(a)	Does the system cater for login based access to the CBT?	
(b)	The CBT must be deliverable on (i) CDs	
	(iii) Support for working in LAN environment (Supporting the client-Server technology)	
	(iii) Deployment over the Web as WBTs with the use of XML	
(c)	<u>Navigation Bar</u> The CBT should have navigation bar for allowing the user complete flexibility of rewinding, pausing, skipping, stopping etc. enabling users to learn system at their own pace and reviewing course material as often as they like.	
(d)	Does the system have voice over in clear accent to support the multimedia animations in Hindi and English?	
(e)	Is the CBT based on elaboration of concepts, features & tools using text, audio, video and graphics and aided by a complete voice-over?	
(f)	Is the CBT design hierarchical? Can each topic be accessed at a "single mouse click"?	
(g)	Is there a feature to search a particular topic or sub-topic?	
(h)	Is a Glossary feature included with the CBT?	
(j)	Does the user have facility to pause, move ahead or backward the animation with complete synchronization of audio and video?	
(k)	Will your solution be flexible and scalable? Can we upgrade it in conjunction with the changing technology and environment in future without making changes in its basic structure?	
(l)	Does the system provide the user to make personal notes? Does the user have option to save the same for future reference with an option to print if required?	
(m)	We require an animated character and 3D graphics and simulations to maintain the interactivity. Does your system provide for such character and 3D graphics and simulations?	
(n)	Does the system provide an option to print the selected Portions/pages of the courseware?	
(o)	Does the system provide answers to frequently asked questions?	
(p)	Can the contents be installed on the LAN as well as the internet environment?	
(q)	Is the courseware structured such that provision is available to access any enhancement tools such as	

	(i) Search (ii) Book Marks (iii) Notes (iv) Print (v) Glossary	
(r)	Does the system provide student Monitoring features (i) Performance Log (ii) Progress Tracking	
(s)	CBT Voice Over file should be made Bilingual in Hindi and English language.	
(t)	The CBT should be able to run on both standalone systems and networked environment and run on following operating systems. (a) Windows 95/98 (b) Window NT (c) Windows 2000 (d) Windows XP	
(u)	The package should have graphics & animation wherever necessary to make the subject easy to comprehend and learning an interesting experience.	
(v)	Hardware requirements. The CBT programme should be able to run on a PC with a min 500 MHz Pentium family processor 64 MB RAM, having graphic card, sound card and speakers and 640 x 480 screen resolution with min of 256 colours.	
(w)	Software Interaction. The product should require no additional software, any special drivers or software required should be bundled in the package and provided in the same CD.	
(x)	Upon accessing the CBT, the user should be able to choose the required topic of his choice & proceed accordingly.	
(y)	The use should be able to quit the CBT at any time by closing the programme or by clicking on 'Quit' in the main menu.	
(z)	Facility for the user to hear the voice over text in English or Hindi to exist. The script of Hindi voice over should be simple with commonly used words.	
(aa)	Package developed should be able to run through Juke Box / CD – Server.	
(ab)	Package developed should have open source code for future updation / up gradation of CBT.	
(ac)	Enumerate minimum education qualification required by user to operate CBT.	
(ad)	The operation of the package should be simple with min key board operation & max possible inputs will be by mouse.	
(ae)	Instruction for running the CBT will be included in the programme it self and will be both in form of text and audio.	
(af)	Features desired for each topic is given in user specification requirement.	
(ag)	Any other additional feature which is mandatory for the smooth running of the package to be mutually decided between developer / vendor and user.	

**TECHNICAL BID: DEVELOPMENT OF COMPUTER BASED TRG AID ON
“PNEUMATIC RAMMER SYSTEM SOLTAM”**

1. Technical offer will be given strictly as per the User Specification Requirements as attached at Annexure II of Appx B. Any deviation/addition will be brought out clearly by the vender. This being turnkey project, development of this will be treated as one project only.
2. For submitting the Technical Bid the following should be answered and considered in detail:

Ser No	Requirements/Questions	Yes/No
(a)	Does the system cater to login based access to the CBT?	
(b)	The CBT must be deliverable on (i) CDs	
	(ii) Support for working in LAN environment (Supporting the client-Server technology)	
	(iii) Deployment over the Web as WBTs with the use of XML	
(c)	<u>Navigation Bar :</u> The CBT should have navigation bar for allowing the user complete flexibility of rewinding, pausing, skipping, stopping etc. enabling users to learn system at their own pace and reviewing course material as often as they like.	
(d)	Does the system have voice over in clear accent to support the multimedia animations in Hindi and English?	
(e)	Is the CBT based on elaboration of concepts, features & tools using text, audio, video and graphics and aided by a complete voice-over?	
(f)	Is the CBT design hierarchical? Can each topic be accessed at a "single mouse click"?	
(g)	Is there a feature to search a particular topic or sub-topic?	
(h)	Is a Glossary feature included with the CBT?	
(j)	Does the user have facility to pause, move ahead or backward the animation with complete synchronization of audio and video?	
(k)	Will your solution be flexible and scalable? Can we upgrade it in conjunction with the changing technology and environment in future without making changes in its basic structure?	
(l)	Does the system provide the user to make personal notes? Does the user have option to save the same for future reference with an option to print if required?	
(m)	We require an animated character and 3D graphics and simulations to maintain the interactivity. Does your system provide for such character and 3D graphics and simulations?	
(n)	Does the system provide an option to print the selected Portions/pages of the courseware?	
(o)	Does the system provide answers to frequently asked questions?	
(p)	Can the contents be installed on the LAN as well as the internet environment?	
(q)	Is the courseware structured such that provision is available to access any enhancement tools such as (i) Search	

	(ii) Book Marks (iii) Notes (iv) Print (v) Glossary	
(r)	Does the system provide student Monitoring features? (i) Performance Log (ii) Progress Tracking	
(s)	CBT Voice Over file should be made Bilingual in Hindi and English language.	
(t)	The CBT should be able to run on both standalone systems and networked environment and run on following operating systems. (e) Windows 95/98 (f) Window NT (g) Windows 2000 (h) Windows XP	
(u)	The package should have graphics & animation wherever necessary to make the subject easy to comprehend and learning an interesting experience.	
(v)	Hardware requirements. The CBT programme should be able to run on a PC with a min 500 MHz Pentium family processor 64 MB RAM, having graphic card, sound card and speakers and 640 x 480 screen resolution with min of 256 colours.	
(w)	Software Interaction. The product should require no additional software, any special drivers or software required should be bundled in the package and provided in the same CD.	
(x)	Upon accessing the CBT, the user should be able to choose the required topic of his choice & proceed accordingly.	
(y)	The use should be able to quit the CBT at any time by closing the programme or by clicking on 'Quit' in the main menu.	
(z)	Facility for the user to hear the voice over text in English or Hindi to exist. The script of Hindi voice over should be simple with commonly used words.	
(aa)	Package developed should be able to run through Juke Box / CD – Server.	
(ab)	Package developed should have open source code for future updation / up gradation of CBT.	
(ac)	Enumerate minimum education & qualification required by user to operate CBT.	
(ad)	The operation of the package should be simple with min key board operation & max possible inputs will be by mouse.	
(ae)	Instruction for running the CBT will be included in the programme it self and will be both in form of text and audio.	
(af)	Features desired for each topic is given in user specification requirement.	
(ag)	Any other additional feature which is mandatory for the smooth running of the package to be mutually decided between developer / vendor and user.	

TECHNICAL BID: DEVELOPMENT OF COMPUTER BASED TRG AID ON
“GM 7.62 MM PKT”

1. Technical offer will be given strictly as per the User Specification Requirements as attached at Annexure III of Appx B. Any deviation/addition will be brought out clearly by the vender. This being turnkey project, development of this will be treated as one project only.
2. For submitting the Technical Bid the following should be answered and considered in detail:

Ser No	Requirements/Questions	Yes/No
(a)	Does the system cater to login based access to the CBT?	
(b)	The CBT must be deliverable on (i) CDs	
	(ii) Support for working in LAN environment (Supporting the client-Server technology)	
	(iii) Deployment over the Web as WBTs with the use of XML	
(c)	<u>Navigation Bar :</u> The CBT should have navigation bar for allowing the user complete flexibility of rewinding, pausing, skipping, stopping etc. enabling users to learn system at their own pace and reviewing course material as often as they like.	
(d)	Does the system have voice over in clear accent to support the multimedia animations in Hindi and English?	
(e)	Is the CBT based on elaboration of concepts, features & tools using text, audio, video and graphics and aided by a complete voice-over?	
(f)	Is the CBT design hierarchical? Can each topic be accessed at "single mouse click"?	
(g)	Is there a feature to search a particular topic or sub-topic?	
(h)	Is a Glossary feature included with the CBT?	
(j)	Does the user have facility to pause, move ahead or backward the animation with complete synchronization of audio and video?	
(k)	Will your solution be flexible and scalable? Can we upgrade it in conjunction with the changing technology and environment in future without making changes in its basic structure?	
(l)	Does the system provide the user to make personal notes? Does the user have option to save the same for future reference with an option to print if required?	
(m)	We require an animated character and 3D graphics and simulations to maintain the interactivity. Does your system provide for such character and 3D graphics and simulations?	
(n)	Does the system provide an option to print the selected Portions/pages of the courseware?	
(o)	Does the system provide answers to frequently asked questions?	
(p)	Can the contents be installed on the LAN as well as the internet environment?	
(q)	Is the courseware structured such that provision is available to access any enhancement tools such as (i) Search	

	(ii) Book Marks (iii) Notes (iv) Print (v) Glossary	
(r)	Does the system provide student Monitoring features (i) Performance Log (ii) Progress Tracking	
(s)	CBT Voice Over file should be made Bilingual in Hindi and English language.	
(t)	The CBT should be able to run on both standalone systems and networked environment and run on following operating systems. (i) Windows 95/98 (j) Window NT (k) Windows 2000 (l) Windows XP	
(u)	The package should have graphics & animation wherever necessary to make the subject easy to comprehend and learning an interesting experience.	
(v)	Hardware requirements. The CBT programme should be able to run on a PC with a min 500 MHz Pentium family processor 64 MB RAM, having graphic card, sound card and speakers and 640 x 480 screen resolution with min of 256 colours.	
(w)	Software Interaction. The product should require no additional software, any special drivers or software required should be bundled in the package and provided in the same CD.	
(x)	Upon accessing the CBT, the user should be able to choose the required topic of his choice & proceed accordingly.	
(y)	The use should be able to quit the CBT at any time by closing the programme or by clicking on 'Quit' in the main menu.	
(z)	Facility for the user to hear the voice over text in English or Hindi to exist. The script of Hindi voice over should be simple with commonly used words.	
(aa)	Package developed should be able to run through Juke Box / CD – Server.	
(ab)	Package developed should have open source code for future updation / up gradation of CBT.	
(ac)	Enumerate minimum education & qualification required by user's to operate CBT.	
(ad)	The operation of the package should be simple with min key board operation & max possible inputs will be by mouse.	
(ae)	Instruction for running the CBT will be included in the programme it self and will be both in form of text and audio.	
(af)	Features desired for each topic is given in user specification requirement.	
(ag)	Any other additional feature which is mandatory for the smooth running of the package to be mutually decided between developer / vendor and user.	

Annexure IV to Appx C

TECHNICAL BID: DEVELOPMENT OF COMPUTER BASED TRG AID ON
“GM 12.7 MM DSZK”

1. Technical offer will be given strictly as per the User Specification Requirements as attached at Annexure IV of Appx B. Any deviation/addition will be brought out clearly by the vender. This being turnkey project, development of this will be treated as one project only.
2. For submitting the Technical Bid the following should be answered and considered in detail:

Ser No	Requirements/Questions	Yes/No
(a)	Does the system cater to login based access to the CBT?	
(b)	The CBT must be deliverable on (i) CDs	
	(ii) Support for working in LAN environment (Supporting the client-Server technology)	
	(iii) Deployment over the Web as WBTs with the use of XML	
(c)	<u>Navigation Bar :</u> The CBT should have navigation bar for allowing the user complete flexibility of rewinding, pausing, skipping, stopping etc. enabling users to learn system at their own pace and reviewing course material as often as they like.	
(d)	Does the system have voice over in clear accent to support the multimedia animations in Hindi and English?	
(e)	Is the CBT based on elaboration of concepts, features & tools using text, audio, video and graphics and aided by a complete voice-over?	
(f)	Is the CBT design hierarchical? Can each topic be accessed at”single mouse click”?	
(g)	Is there a feature to search a particular topic or sub-topic?	
(h)	Is a Glossary feature included with the CBT?	
(j)	Does the user have facility to pause, move ahead or backward the animation with complete synchronization of audio and video?	
(k)	Will your solution be flexible and scalable? Can we upgrade it in conjunction with the changing technology and environment in future without making changes in its basic structure?	
(l)	Does the system provide the user to make personal notes? Does the user have option to save the same for future reference with an option to print if required?	
(m)	We require an animated character and 3D graphics and simulations to maintain the interactivity. Does your system provide for such character and 3D graphics and simulations?	
(n)	Does the system provide an option to print the selected Portions/pages of the courseware?	
(o)	Does the system provide answers to frequently asked questions?	
(p)	Can the contents be installed on the LAN as well as the internet environment?	
(q)	Is the courseware structured such that provision is available to access any enhancement tools such as	

	(i) Search (ii) Book Marks (iii) Notes (iv) Print and (v) Glossary	
(r)	Does the system provide student Monitoring features (i) Performance Log (ii) Progress Tracking	
(s)	CBT Voice Over file should be made Bilingual in Hindi and English language.	
(t)	The CBT should be able to run on both standalone systems and networked environment and run on following operating systems. (m) Windows 95/98 (n) Window NT (o) Windows 2000 (p) Windows XP	
(u)	The package should have graphics & animation wherever necessary to make the subject easy to comprehend and learning an interesting experience.	
(v)	Hardware requirements. The CBT programme should be able to run on a PC with a min 500 MHz Pentium family processor 64 MB RAM, having graphic card, sound card and speakers and 640 x 480 screen resolution with min of 256 colours.	
(w)	Software Interaction. The product should require no additional software, any special drivers or software required should be bundled in the package and provided in the same CD.	
(x)	Upon accessing the CBT, the user should be able to choose the required topic of his choice & proceed accordingly.	
(y)	The use should be able to quit the CBT at any time by closing the programme or by clicking on 'Quit' in the main menu.	
(z)	Facility for the user to hear the voice over text in English or Hindi to exist. The script of Hindi voice over should be simple with commonly used words.	
(aa)	Package developed should be able to run through Juke Box / CD – Server.	
(ab)	Package developed should have open source code for future updation / up gradation of CBT.	
(ac)	Enumerate minimum education & qualification required by user to operate CBT.	
(ad)	The operation of the package should be simple with min key board operation & max possible inputs will be by mouse.	
(ae)	Instruction for running the CBT will be included in the programme it self and will be both in form of text and audio.	
(af)	Features desired for each topic is given in user specification requirement.	
(ag)	Any other additional feature which is mandatory for the smooth running of the package to be mutually decided between developer / vendor and user.	

COMMERCIAL BID: DEVELOPMENT OF COMPUTER BASED TRG AID

1. The Commercial Bids for the development of CBTs should be as per the following:
 - (a) OP DEVICE OF SOLTAM - Annexure I to Appx D
 - (b) PNEUMATIC RAMMER SYS SOLTAM - Annexure II to Appx D
 - (d) GM 7.62 mm PKT - Annexure III to Appx D
 - (e) GM 12.7 mm DSZK - Annexure IV to Appx D

COMMERCIAL BID: DEVELOPMENT OF COMPUTER BASED
TRG AID ON “OP DEVICE OF SOLTAM”

1. Development of Computer Based Training aid on “**OP DEVICE OF SOLTAM**” as per User Specification Requirements is attached at Annexure I of Appx B. It is a turnkey project and the commercial bid should include the total cost of development of this software package as one project.

2. Cost of “**CBT on OP DEVICE OF SOLTAM**”.

(a) Qty - 01(Master copy)

(b) No of copies - 06

(b) Total cost of CBT on “**OP DEVICE OF SOLTAM**” in Rs _____ (Rupees
_____ only).

COMMERCIAL BID: DEVELOPMENT OF COMPUTER BASED TRG AID ON
“PNEUMATIC RAMMER SYSTEM SOLTAM”

1. Development of Computer Based Training aid on “**PNEUMATIC RAMMER SYSTEM SOLTAM**” as per User Specification Requirements is attached at Annexure II of Appx B. It is a turnkey project and the commercial bid should include the total cost of development of this software package as one project.

2. Cost of CBT on “**PNEUMATIC RAMMER SYSTEM SOLTAM**”

(a) Qty - 01(Master copy)

(b) No of copies - 06

(c) Total cost of “ CBT on “**PNEUMATIC RAMMER SYSTEM SOLTAM**” in Rs _____

]
(Rupees _____ only)

COMMERCIAL BID: DEVELOPMENT OF COMPUTER BASED TRG AID ON
“GM 7.62 mm PKT”

1. Development of Computer Based Training aid on “**GM 7.62 mm PKT**” as per User Specification Requirements is attached at Annexure III of Appx B. It is a turnkey project and the commercial bid should include the total cost of development of this software package as one project.

2. Cost of **CBT** on “**GM 7.62 mm PKT**”

(a) Qty - **01(Master copy)**

(b) No of copies - **06**

(c) **Total cost of CBT on “GM 7.62 mm PKT” in Rs _____ (Rupees**
_____ only).

COMMERCIAL BID: DEVELOPMENT OF COMPUTER BASED TRG AID ON
“GM 12.7 MM DSZK”

1. Development of Computer Based Training aid on “**GM 12.7 MM DSZK**” as per User Specification Requirements is attached at Annexure IV of Appx B. It is a turnkey project and the commercial bid should include the total cost of development of this software package as one project.

2. Cost of **CBT** on “**GM 12.7 MM DSZK**”

(a) Qty - **01(Master copy)**

(b) No of copies - **06**

(c) Total cost of CBT on “**GM 12.7 MM DSZK**” in Rs _____ (Rupees
_____ only).