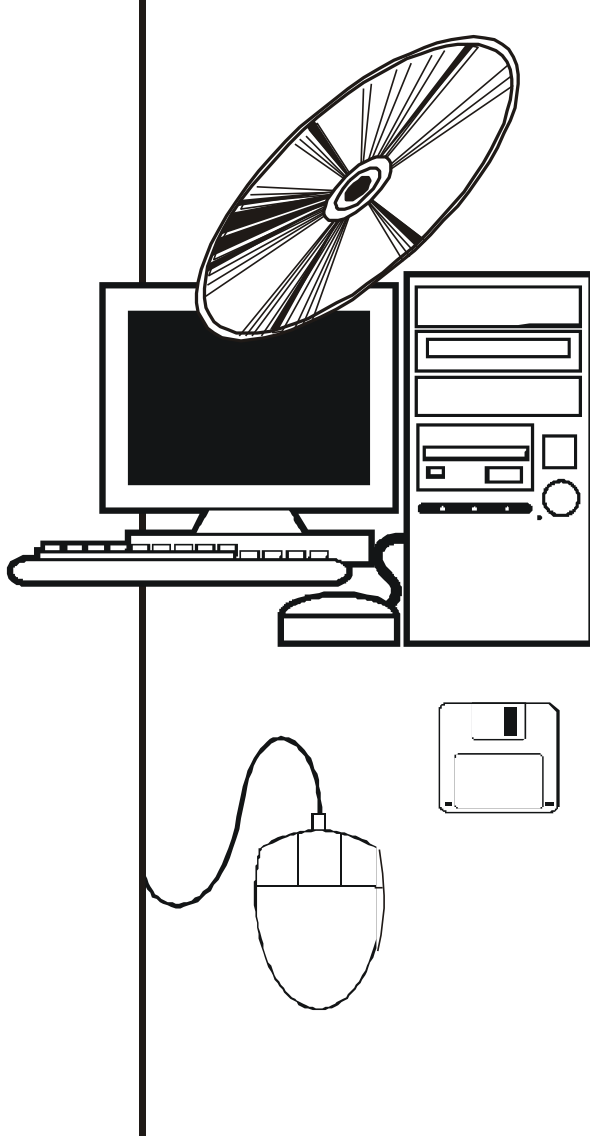




|                                   |        |       |
|-----------------------------------|--------|-------|
| Advt. No :-HARTRON/MSG/2010-11/09 | S. No: | Date: |
| DATE OF CLOSING: 24.03.2011       |        |       |



# Tender Document

**CATEGORY: Setting up of Audio Visual Lab at HPA, Madhuban.**

हरियाणा राज्य इलेक्ट्रॉनिक्स विकास निगम लिमिटेड

,स. सी. ओ. १११ - ११३, सेंक्टर १७ बी, चण्डीगढ़ - १६००१७ (भारत)

**haryana state electronics development corporation limited**  
**( a state government undertaking )**

Regd. Office : S.C.O. 111-113, Sector 17-B,  
Chandigarh - 160 017 (India)

Haryana - The Home of Electronics

hartron



हरियाणा राज्य इलेक्ट्रॉनिक्स विकास निगम लिमिटेड

एस. सी. ओ. १११ - ११३, सेक्टर १७ बी, चण्डीगढ़ - १६००१७ (भारत)

**haryana state electronics development corporation limited**  
**( a state government undertaking )**

Regd. Office : S.C.O. 111-113, Sector 17-B,  
Chandigarh - 160 017 (India)

Advt.No.-HARTRON/MSG/2010-11/09

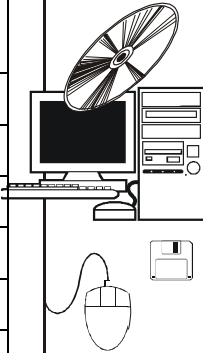
Tender no.

S.no.\_\_\_\_ Date\_\_\_\_\_

To

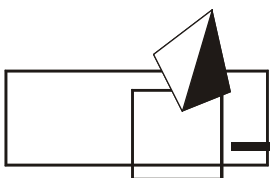
\_\_\_\_\_  
\_\_\_\_\_

|  |   |   |
|--|---|---|
| LAST DATE OF SUBMISSION                      | : | 09.03.2011 upto 2.30 P.M.   |
| COST OF TENDER DOCUMENT                      | : | ₹1000/- (The tender document can also be downloaded from the website of HARTRON. please attach demand draft of ₹1000/- as cost of document separately failing which offer will not be entertained.) |
| EARNEST MONEY DEPOSIT                        | : | EMD ₹2.00 Lac in the form of Demand Draft   |
| INSTRUCTIONS FOR BIDDERS                     | : | SECTION-1   |
| INSTRUCTIONS FOR TENDER                      | : | ANNEXURE-I  |
| CONDITION FOR TENDER                         | : | ANNEXURE-II   |
| CERTIFICATE OF ACCEPTANCE                    | : | ANNEXURE-III  |
| PRE-QUALIFICATION CRITERIA-cum-Technical Bid | : | ANNEXURE-IV   |
| AUTHORISATION FOR SIGNATURES                 | : | ANNEXURE-V  |
| MANUFACTURER'S AUTHORISATION CERTIFICATE     | : | ANNEXURE-VI   |
| UNDERTAKING OF RATES                         | : | ANNEXURE-VII  |
| AFTER SALE SERVICE CERTIFICATE               | : | ANNEXURE-VIII   |
| CONDITIONS OF TENDER DOCUMENT                | : | ANNEXURE-IX   |
| TECHNICAL SPECIFICATIONS                     | : | ANNEXURE-X  |
| FORMAT FOR COMMERCIAL BID                    | : | ANNEXURE-XI   |



(Roshan Lal)

Asst. General Manager(MSG)





## SECTION 1

### INSTRUCTIONS TO BIDDERS

#### A. Introduction

**Note:** - Setting up of Audio Visual Lab (Supply, Installation, Testing and Commissioning) comprising of following at HPA, Madhuban, Karnal:-

- i) Three Camera Studio
- ii) Post production
- iii) Control Room

#### 1 Procedure for Submission of Bids

It is proposed to have a Two-Cover System for this bid.

- a) Pre-Qualification cum Technical Bid in one separate cover.
- b) Commercial Bid in another separate cover.

1.1 The Bidders must place their Pre-Qualification cum Technical Bid and Commercial bids in separate envelopes super-scribed with separate Bid titles as follows:

- Pre-Qualification cum TECHNICAL BID
- COMMERCIAL BID

1.2 The Bidders have to qualify the Pre-qualification Criteria cum technical bid.

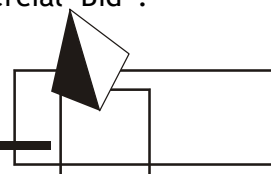
1.3 Pre-qualification Criteria cum technical bid will be opened on the prescribed date and time.

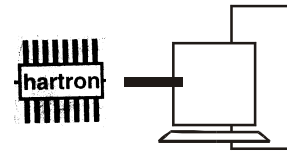
1.4 The Technical Committee will take demonstration of Audio Visual Lab Equipments of brands offered by the various bidders before opening of the Commercial Bids to evaluate the product in terms of specifications and acceptability of the brand.

1.5 Copy of Prequalification-cum-Technical Bid should be covered in a separate sealed cover super-scribing the wording "Pre-qualification cum Technical Bid".

1.6 Please note that commercial aspects (prices, freight charges, Installation etc.) should not be indicated in the Pre-qualification cum Technical Bid and should be quoted only in the Commercial Bid.

1.7 Copy of Commercial Bid should be covered in a separate sealed cover super-scribing the wording "Commercial Bid".





Commercial Bid should only indicate prices in the prescribed format as per Annexure- XI.

- 1.8 Both the Prequalification-cum-Technical bid and Commercial Bid should be covered in separate sealed cover and super scribing the cover thus prepared should also indicate clearly the name and address of the Bidder to enable the Bid to be returned unopened in case it is received "Late".
- 1.9 The bids received late and declared late by the Bid Evaluation committee after the last date and time for receipt of bids prescribed in the bid document or otherwise shall be rejected and/or returned unopened to the Bidder.
- 1.10 Each copy of the bid should be a complete document with Index & page numbering and should be bound as a volume.

## 2 Cost of Bid document

- 2.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, including cost of presentation for the purposes of clarification of the bid, if so desired by the Client and Client will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

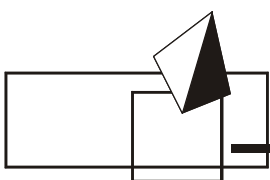
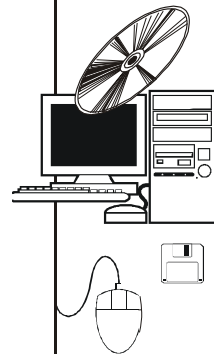
- 3 The Bidder is expected to carefully examine all instructions, forms, terms and specifications in the Bid Document. Failure to furnish all information required in the Bid Document or submission of a bid not substantially responsive to the Bid Document in every respect will be at the Bidder's risk and may result in the rejection of the bid.

## 4 Clarification regarding Bid Document

- 4.1 A prospective Bidder requiring any clarification of the Bid Document may notify the HARTRON in writing at the HARTRON mailing at least two days before the closing date of the bid. HARTRON will respond in writing to any request for clarification of the Bid Document, received, not later than 2 days prior to the last date for the receipt of bids prescribed by the Client. Written copies of the Client response (including an explanation of the query but without identifying the source of Inquiry will be sent to all prospective Bidders who have received the Bid Documents.

## 5 Amendment of Bid Document.

- 5.1 At any time upto the last date for receipt of bids, HARTRON, may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective Bidder, modify the Bid Document by an amendment.





5.2 The amendment will be notified in writing or by telex or cable or e-mail to the prospective Bidders who have received the Bid Documents and will be binding on them.

5.3 In order to afford prospective Bidders reasonable time or otherwise for any other reason, in which to take the amendment into account in preparing their bids, the Client may, at his discretion, extend the last date for the receipt of Bids.

#### **B. Preparation of Bids**

#### **6 Language of Bids**

6.1 The Bids prepared by the Bidder and all correspondence and documents relating to the bids exchanged by the Bidder and the Haryana State Electronic Dev. Corp. Ltd. shall be written in the English language, provided that any printed literature furnished by the Bidder may be written in another language so long as accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.

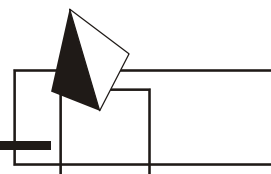
#### **7 Documents Comprising the Bids**

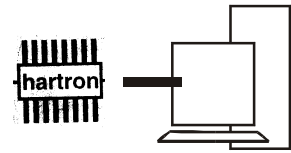
7.1 Conditional bids shall not be entertained.

7.2 The Bids prepared by the Bidders shall comprise of following components (Bid documents are to be submitted in the order of pre-qualification criteria clauses along with index page no.):

#### **Pre-qualification Technical Bid shall consist of the following:-**

1. Tender Document Fee
  2. EMD
  3. Documents as per Annexure-IV
  4. Technical Compliance as per Annexure-X
- (a) Technical Deviations, if any, from the terms and conditions and specifications as specified in the Bidding Documents. Failing which, it would be assumed that there are no technical deviations and the full responsibility lies on the Bidder.
- (b) Technical Brochures of the product quoted and also current certifications required as per detailed technical specifications as per Annexure-X should also be enclosed.

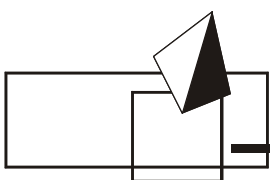
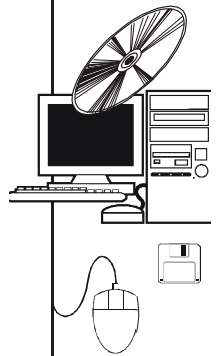




- (c) Bidder must submit papers on detailed strategy, methodology and time schedules for supply, installation and maintenance of Audio Video equipments of the Lab.
- (d) The Technical specifications may be fine tuned on the basis of discussions with various Bidders during the Technical Bid evaluation process or otherwise. The revised commercial bids, if required, would then be called on the basis of fine tuned specifications.

**Commercial Bid consisting of the following: -**

- (a) Bid prices for the Technical Specifications duly filled, signed and complete as per the Price Schedule on the prescribed Proforma as per Annexure-XI.
- (b) In the commercial bid:-
- The bidder is required to submit basic price, all taxes, and cess, levies, Octroi and total price FOR anywhere in Haryana, Chandigarh and Delhi.
- (c) Commercial Deviations, if any, from the terms and conditions and specifications as specified in the Bidding Documents.

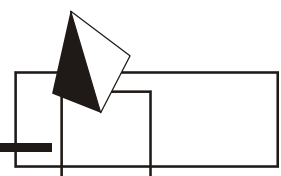


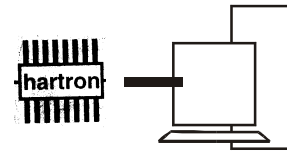


## ANNEXURE-I

### INSTRUCTIONS FOR TENDER

1. Documents must be enclosed in a properly sealed envelope addressed to the **Managing Director, HARTRON** with kind attention to **Asstt. General Manager (MSG), HARTRON** by designation and not by name. The offers must be super scribed "Documents for purchase of Audio Visual Lab Equipments vide advertisement No. HARTRON/MSG/2010-11/09. The documents must be put in the tender box laying in the Marketing Support Group, 2<sup>nd</sup> Floor, HARTRON or reach to the Asstt. General Manager (MSG), HARTRON before 2.30 PM on the date mentioned in the tender document.
2. In the event of documents being submitted by a partner firm, it must be signed separately by each member thereof, or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, or in the case of a Company, the documents should be executed in the manner laid down in the said Company's Articles of Association. The signatures on the documents shall be deemed to be authorized signatures.
3. All the columns of the documents form shall be duly, properly and exhaustively filled in.
4. All corrections must be signed by the tenderers.
5. EMD: EMD ₹2, 00,000/- in the form of Demand Draft payable to HARTRON, Chandigarh. However, the suppliers who are on the panel of HARTRON and has deposited Earnest Money with HARTRON are requested to deposit the difference so that total EMD not less than ₹ 2, 00,000/-. The tenderer will undertake that the deposited EMD with HARTRON are free and may be treated as EMD for this bid (details to be provided). Pending payment with HARTRON will not be treated as EMD.
6. The supplier who will not be qualified for the purchase, the EMD will be refunded back within one month from the date of finalization of purchase.
7. **The Managing Director, HARTRON does not bind himself to accept the offer and reserve to himself the right to reject any or all offers without assigning any reasons.**
8. No document will be considered unless and until all the documents are properly stamped and signed.





## Annexure-II

### Condition for Tender

1. This contract is valid till the execution of order but in the event of any breach of the agreement at any time on the part of the contractor, the Contract may be terminated summarily by the Managing Director, HARTRON without compensation to the contractor.

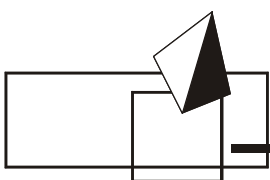
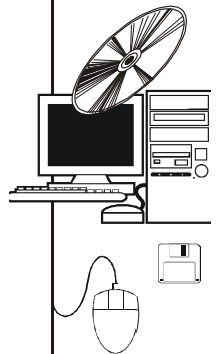
Any change in the constitution of the firm shall be notified forthwith by the contractor in writing to the authority sanctioning the contract and such change shall not relieve any former member of the firm from any liability under this purchase.

No new partner/partners shall be accepted into the firm by the contractor in respect of this Contract unless he/they agree to abide by all its terms, conditions and deposit with the officer sanctioning the contract, a written agreement to this effect. The contractor's receipt or acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be a sufficient discharge for any of the purposes of the contract.

The contractor will supply nothing but genuine articles as described in Notice Inviting Tender from time to time in such quantities as may be mentioned in the Tender Document. No guarantee can be given as to the quantity, which will be ordered during this period. But the purchaser undertakes to order from the contractor all stores which he requires to purchase, except that he reserves to himself the right of placing the contract with one or more contractors as he may think fit and in consideration of this undertaking by Government, the contractor binds himself not to revoke this contract during the said period.

The articles to be supplied under this contract will be of the quality equal and answerable in every respect to the specifications given in the Notice Inviting Tender approved by the Managing Director, HARTRON. The contractor shall be responsible for all complaints as regards the quality. In case of dispute regarding quality of articles, the decision of Managing Director, HARTRON will be final and binding on the contractor. It will be open to the Managing Director, HARTRON to send samples submitted by the tenderer/contractor to any laboratory/committee of technical expert for tests and the cost thereof will be borne by the tenderer/contractor.

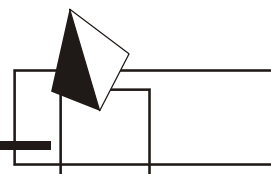
2. The Managing Director, HARTRON may by notice in writing call upon the contractor to supply additional articles to serve as sample and upon such notice in writing, contractor shall at his own cost be bound

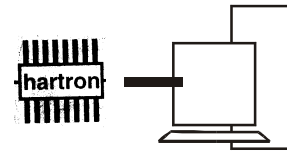




to supply additional samples, such additional samples being in all respect of the same quality as the sample first supplied.

3. The contractor will be responsible for damage or loss in transit and replace goods broken or lost within 10 days from the date of notice thereof. Unless otherwise specified all goods must be delivered at destination within 2 weeks from the date of placement of order.
4. Condition as to time for performance whether laid down herein or in any indent shall be always regarded as the essence of the contract.
5. a) The Managing Director, HARTRON can authorize any of the experts or the Indenting Officers or any other officer or person to have the power to inspect the stores at manufacturer premises/distributors premises or at consignee site and to reject the same or any part or portion after the written approval of the Managing Director, Hartron, if he or they be not satisfied that the same is equal or according to the specifications submitted by the contractor. The contractor shall not be paid for supplies rejected as above and such supplies shall be removed by the contractor at once and at his expense. He shall neither claim nor be entitled to payment for any damage that rejected supplies may suffer from any harm whatsoever incidental to a full and proper examination and test of such supplies. HARTRON shall be under no liability whatsoever for rejected and the same will be at the contractor's risk. Rejected supplies shall be removed by the contractor within 10 days after notice has been issued to him of such rejection, and failing such removal of rejected goods will be at contractor's risk and Hartron may charge rent from the contractor for the space occupied by such rejected goods.  
  
b) Super inspection of stores, already inspected may be carried out at the discretion of Managing Director, HARTRON, by such officer as may be authorized by him. The provisions of conditions (5a) will apply to the Super Inspection also.
6. The contractor shall provide without any extra charge all materials, tools, labour and assistance of every kind which the aforesaid officer may consider necessary for any test or examination which he may require to be made on the contractor's premises and shall pay all cost attendant thereon. In the case of stores inspected at maker's premises, the maker shall provide all facilities including testing appliances for making necessary tests other than special tests, or in dependent tests. Failing these facilities at the own premises for making the tests the contractor shall bear the cost of carrying out





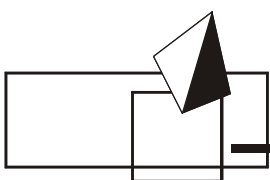
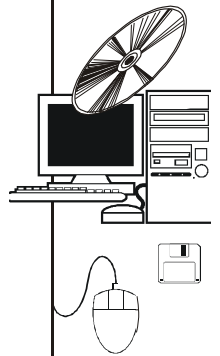
test elsewhere. The contractor shall also provide and deliver free of charge at such place as the aforesaid officer may direct such materials as he may require for tests. If for the purpose of determining the quality of stores the aforesaid Officer find it necessary to have the stores tested at the test house or laboratory, all expenses incidental to the test shall be borne by the contractor. On the failure of the contractor to pay the expenses within 10 days of the receipt of intimation on behalf of the Inspecting Officer, the Managing Director, HARTRON shall have the right to deduct the amount from the security deposited by the contractor, and if the amount so deducted is not deposited within 10 days, the Managing Director, HARTRON may treat the default as a breach of agreement and proceed as per agreement without further notice. Further, the aforesaid officer shall have the right to put all articles or materials to such tests as he may think proper for the purpose of ascertaining whether the same are in accordance with the specifications or sealed sample mentioned in the tender and to cut out or off and/or destroy a portion not exceeding 2 per cent from each delivery for such purpose and the quantity so cut out or off and/or destroyed as aforesaid shall be replaced by contractor free of charge.

7. Packing cases, containers, gunny packages etc. which may be used for purposes of packing and which are delivered with stores will not be returned or paid for unless specifically stipulated, and that to contractor's expense.
8. Unless otherwise specified in a requisition, bills for the whole goods referred to in each indent, in triplicate, will be prepared and submitted by contractor to the Managing Director, HARTRON. The full amount will be paid on receipt of Stores in good condition after their verification as regards specifications, etc.

**9. IN CASE OF DIRECT PAYMENT TO CONTRACTOR**

If the payment of any bill be not made within one month from the date of its submission, the indenter to whom the bill was forwarded should be addressed first. Failing which, the matter should be reported to the MD, HARTRON. All such complaints should be with following details: -

- i) The number and date of the supply order,
  - ii) The date of Inspection along with photocopy of Inspection note,
  - iii) The date of Delivery,
  - iv) The date of Installation,
10. With every dispatch of goods or materials under the contract, invoices in triplicate will be prepared by the contractor. Invoices in





triplicate are to be sent by the contractor to the Indenting Officer, the duplicate to be returned by the Indenting Officer, with the quantities or number received duly noted thereon and the third copy to be sent by the contractor to Managing Director, HARTRON for record in his office.

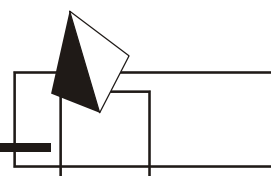
The contractor shall dispatch the material freight paid and duly insured at destination.

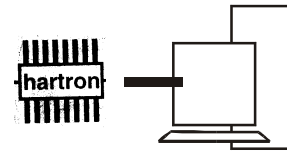
This is subject to the condition that the materials are securely packed by the suppliers in sound containers and the consignment is accepted by the carriers without any adverse remarks as to the packing or the condition of the containers. In case of any adverse remarks, the responsibility for the losses in transit will rest with the suppliers.

Subject to these conditions, the contractor will not be entitled to charge or be paid for supplies broken, lost or damaged in transit. The Managing Director, HARTRON will be the authority to determine whether or not the breakage, loss or damage was caused through the contractor's negligence and the decision of the Managing Director, HARTRON or some other officer action on his behalf shall be final and conclusive against the contractor. Such rejected supplies shall be removed by the contractor at his own expense.

If during the currency of the contract, the specifications of any article or articles to be supplied there under be changed, the contractor shall continue to comply with demands for the supply of the said article or articles in accordance with the new specifications at rate to be mutually agreed to in writing at the time of such change, and in default of such agreement the contractor in so far as it relates to the said article or articles in respect of which no agreement has been arrived at, shall terminate but no such change shall affect the supply of any other articles under the contract or entitle the contractor to any compensation.

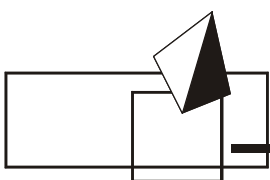
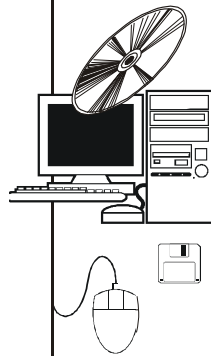
11. In the event of withdrawal or discontinuance of any article or articles and consequent ceasing of or reduction in demand the contractor shall not be entitled to any compensation. Government will however, make all reasonable endeavors to give warning of any impending complete withdrawal or of any reduction seriously affecting quantities likely to be required under contract.
12. The date of delivery stipulated in a supply order shall be deemed to be the essence of the contract and should the contractor fail to deliver any consignment within the period prescribed for such delivery stipulated in the supply order, HARTRON may cancel the supply order & penal action such as debarring, forfeiture of earnest





money, security & pending payments, may be taken against the firm. HARTRON may accept the delayed consignment subject to 1% penalty per consignment per week recoverable on the value of the stores supplied maximum upto 10% of the pro rata basis upto the delay of 10 weeks. In case of non-payment by the contractor, recovery will be made from his bills or amount of Earnest Money deposited with HARTRON. However, if the firm request for extension of delivery period, the reasons for delay will be examined by HARTRON & if the reasons for delay are found justified. MD, HARTRON may extend the delivery period. In case, the delivery period is extended no penalty for supplies made during the extended period be recovered from the supplier.

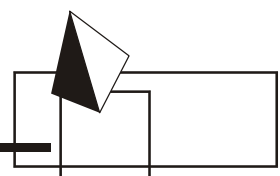
- a) On the failure of the supplier to make supply within the extended period, HARTRON shall immediately issue notice to the supplier for non-delivery of the goods. If the delay increases to twice of the delivery period of the original schedule, a risk purchase at the cost of suppliers, notice will be given by the HARTRON for a period equal to the delivery schedule. Again, if the supplier does not supply the material after risk purchase notice, then risk purchase will be affected by the Corporation by inviting short term quotations from the registered and other known suppliers. The excess cost thus incurred will be recovered from the suppliers from his pending bills/ Earnest Money or through court of law. This procedure will be adopted after serving registered notice to supply stores within 15 days.
13. The contractor acknowledges that he has made himself fully acquainted with all the conditions and circumstances under which the supplies required under the contract will have to be made or furnished and with all the terms, clauses, conditions, specifications and other details of the contract and the contractor shall not plead ignorance of any of those as excuse in case of complaint against or on rejection of supplies tendered by him or with a view either to asking for encashment of any rates agreed to in the contract or to evading any of his obligations under the contract.
  - 14 . No payment will be made in advance for any Supplies under this Contract.
  15. i) The contractor shall not:
    - a) Assign or sublet contract without written approval of the officer sanctioning the contract.

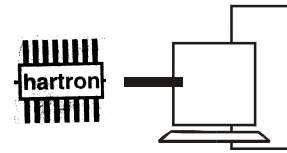




- a) Disposal details of the conditions governing this contract to unauthorised persons (intending against this contract is permissible only for the bonafide use of Government Departments and Quasi Public and not for private parties or for the private use of the Government Officers).
- ii) In the event of the contractor failing duly and properly to fulfil or committing breach of any of the terms and conditions of this contract or repeatedly supplying goods liable to rejection hereunder or failing, declining, neglecting or delay to comply with any demand or requisition or otherwise not executing the same in accordance with terms of this contract or if the terms of this contract or if the contractor or his agent or servants being guilty of fraud in respect of this contract or any other contract entered into by the contractor or any of his partners or representatives thereof with Government directing, giving, promising or offering any bribes, gratuity, gift loan, perquisite, reward or advantage pecuniary or otherwise to any person in the employment of Government in any way relating to such officers or person or persons, officer or employment or if the contractor or any of his partners become insolvent or apply for relief as insolvent debtor or commence any insolvency proceedings or make any composition with his/their creditors or attempts to do so, then without prejudice to Government's rights and remedies otherwise, Government shall be entitled to terminate this contract forth with and to blacklist the contractor and purchase or procure or arrange from Government's stocks or otherwise at the contractor's risk and at the absolute discretion of the Managing Director, HARTRON as regards the manner, place or time of such purchases, such supplies have not been supplied or have been rejected under this arrangement or are required subsequently by Government there under and in cases where issues in replacement are made from Governments stock or supplies, the cost or value or such stocks or supplies together with all incidental charges or expenses, shall be recoverable from the contractor on demand and the contractor shall not be entitled to benefit from any profit which may thus accrue to Government.

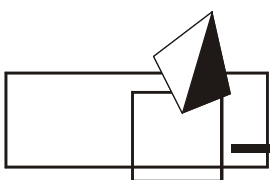
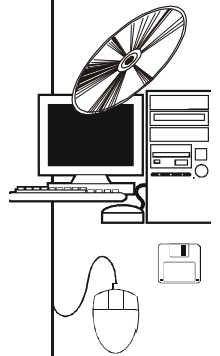
The termination of this contract in whole or part under these conditions shall not be affected by the acceptance, meanwhile or subsequently, of supplies accepted or made at





any station whether in ignorance of the termination otherwise.

16. If any question, difference or objection whatsoever shall arise, in any way connected with or arising out of this instrument or the meaning or operation of any part thereof or the rights, duties or liabilities or either party than save in so far as the decision of any such matter is here in before provided for and has been so decided every such matter including whether its decision has been otherwise provided for and/or whether it has been finally decided accordingly in whether the contract should be terminated or has been rightly terminated in whole or part and as regards the rights and obligations of the parties as the result of such termination, shall be referred for arbitration to any Officer appointed by Commissioner & Secretary Information Technologies, Haryana and his decision shall be final and binding and where the matter involves a claim of the amount if any awarded in such arbitration shall be recoverable in respect of the matters so referred.
17. (a) The Arbitrator and his subordinate staff shall be paid a fee of ₹ 500/- per hearing subject to a maximum of ₹2500/- in each case provided that out of this amount 20% will be payable to his staff. The arbitration fee will be borne equally by the Govt. and by the party concerned. The parties, other than the Govt. shall deposit their share in shape of Demand Draft in favour of HARTRON, Chandigarh before announcement of award by the Arbitrator. In case the arbitration proceedings are conducted *exparte* and the award is announced against the Govt. than entire amount shall be payable by HARTRON or concerned Department as the case may be but where the *exparte* award is announced in favour of the Govt. the share of the opposite party shall be recoverable from the said party.
18. Deviation, if any may please be mentioned separately. If there is no deviation than it should be mentioned as “No Deviation”.





**ANNEXURE-III**

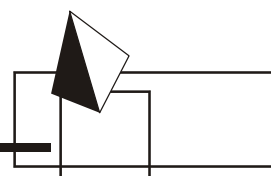
**Certificate of Acceptance**

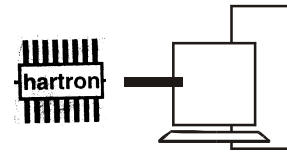
I/We hereby offer to supply the Audio Visual Lab Equipments in the manner in which and within the time specified as set forth in the Notice Inviting Tender.

I/We herewith enclose Demand Draft for sum of ₹.....as Earnest money and should I/We fail to execute an agreement embodying the said conditions. I/We hereby agree that the above sum of Earnest money shall be forfeited by Managing Director, HARTRON.

Read and accepted.

Signature of the Tenderer



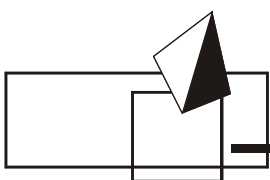
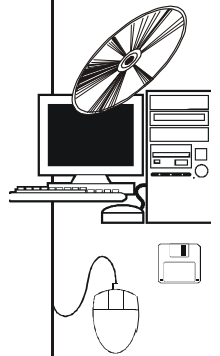


#### ANNEXURE-IV

### Pre-qualification cum Technical bid for the Purchase of Audio Visual Lab Equipments.

The vendor shall enclose the following documents with the Pre-qualification cum Technical bid:-

1. The bidder should be system integrator and the authorization of major audio visual product may be either from manufacturer or from authorized distributor/dealer, in case manufacturer is not directly participating in the tender. The dealers must enclose a certificate of authorization of manufacturer with the bid as per Annexure -VI.
2. The brand should be available in the market from the last 3 years.
3. Turnover: Bidder quoting for the equipments for setting of Audio Video Lab should have turnover of minimum **₹5.00 Crore cumulative during the preceding two years in case of authorized supplier/dealer.**
4. Bidder should have setup atleast **two** Audio Visual lab (studios) in any State which should be in running condition by using the maximum of offered make.
5. The bidder should supply documentary proof i.e. Registration with the Director of Industries, National Small Scale Industries Corporation, DGS&D or with panel of HARTRON. Offers other than the manufacturers should be supported with an authority letter from the manufacturers, authorizing them to quote rates standing guarantee for the satisfactory execution of supply orders failing which offers are liable to be ignored.
6. The successful bidder(s) will make the **supply, installation, testing & commissioning** of Audio Visual Lab Equipments FOR Destination.
7. **Delivery: 6-8 weeks** from the date of placement of confirmed order FOR destination.
8. The EMD will be ₹2.00 Lac. The EMD of successful bidder(s) will be refunded after execution of order. However, EMD of others bidders will be refunded within one month from the date of finalization of purchase.
9. **Payment:** 60% of payment will be released after delivery, inspection and installation at consignee site. 20% payment will be released after satisfactory training of **4 weeks which includes, General Studio Operational Training, Post Production training, Graphic and composition training to the**



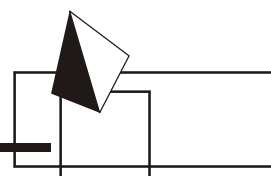


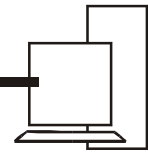
officials of user department. The balance 20% payment will be released within one month from the date of submission of 20% Bank Guarantee and installation/training report, which will be released after expiry of warranty period.

10. Warranty: - 24 months from the date of installation or 25 months from the date of delivery, whichever is earlier. However, in case installation will be pending on the part of the supplier then warranty will be 24 months from the date of installation.
11. AMC:-The bidder will ensure maintenance of complete lab equipments under AMC arrangement for a period of minimum 5 years after the expiry of warranty period.
12. The vendor shall provide operational training on the equipments and other related accessories supplied along with.
13. The Technical Committee will take demonstration of Audio Video Lab equipments of brands offered by the various bidders before opening of the commercial bids to evaluate the product in terms of specifications and acceptability of the brand.
14. The product to be offered should withstand the climatic conditions like Relative Humidity, Temperature etc. of the State of Haryana including Chandigarh and Delhi region.
15. Conditional bids shall not be entertained.

**NOTE:**

- Documents are not transferable.
- The vendors who will not qualify for the conditions of pre-qualification shall not be considered.
- The tender document should be accompanied with the documentary details (wherever applicable) as per above-mentioned points. Otherwise the Bidder will be considered disqualified in the pre-qualification criteria.
- Deviations, if any terms & conditions should be indicated separately.





**Annexure-V**

**IN WITNESS THERE OF** the parties have here up to set their hands on the cases indicated below:

1. (In the case of a Firm)

Sign. by the above-named firm of \_\_\_\_\_ through \_\_\_\_\_ partner of the firm.

Date \_\_\_\_\_

Signature

2. (In the case of a Company)

The seal of the \_\_\_\_\_ Company Limited, was affixed by virtue of the resolution of the Board dated No. \_\_\_\_\_ the \_\_\_\_\_ day of \_\_\_\_\_ 2000 \_\_\_\_\_

Seal

Dated

Director's  
Signature

(In either case)

Secretary's.  
Signature

In the presence of (i)

(i) Signature  
Address  
Description

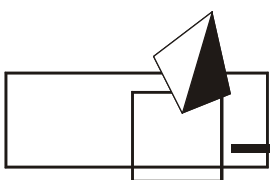
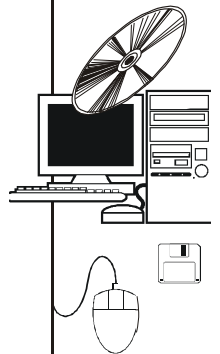
(ii) Signature  
Address  
Description

Signed by \_\_\_\_\_

Signature of \_\_\_\_\_

Dated \_\_\_\_\_

on behalf of the Managing Director  
of HARTRON





**ANNEXURE-VI**

**From**

.....  
.....

**To**

Managing Director,  
HARTRON, SCO-111-113,  
Sector 17-B, Chandigarh

**AFFIDAVIT**

**(MANUFACTURER'S AUTHORISATION CERTIFICATE)**

I, \_\_\_\_\_ son of  
Sh. \_\_\_\_\_ resident of \_\_\_\_\_  
\_\_\_\_\_ do hereby solemnly affirm and declare as  
under:-

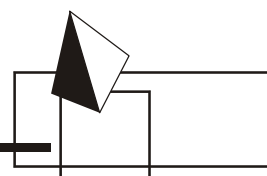
- (i) That this is to certify that M/s \_\_\_\_\_ is our authorized dealer/distributor/agent and he is authorized to submit tender/quote the rates in the State of Haryana, against this enquiry no. \_\_\_\_\_ due on \_\_\_\_\_ and to supply the material in original manufactured by us.
- (ii) That we shall have full responsibility of satisfactory supplies against the supply order if dealer/distributor/agent against the above mentioned tender inquiry.
- (iii) That I am fully authorized to give this affidavit on behalf of (name of firm) and the power of attorney has been executed in my favour (Attested copy enclosed).
- (iv) That if at any stage a dispute arises between dealer/distributor/agent and our manufacturing firm, we will be responsible to arrange supply on the terms and conditions of supply order.
- (v) That in case the dealer/distributor/agent fails to supply the goods as per supply order of the contract we, the manufacturer takes the responsibility of the supply and will abide by the terms and conditions of contract, signed by the dealer/distributor/agent.

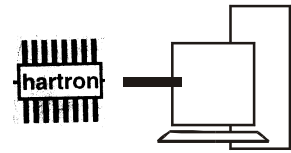
**DEPONENT**

**Verification:**

Verified that the contents of the above affidavit of mine are true and correct to the best of my knowledge and nothing has been concealed therein.

**DEPONENT**





**ANNEXURE-VII**

**UNDERTAKING OF RATES**

From

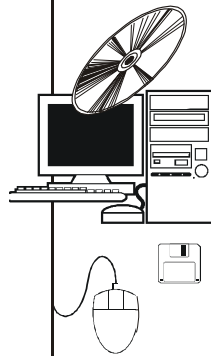
.....  
.....

To

Managing Director,  
HARTRON, SCO-111-113,  
Sector 17-B,  
Chandigarh

We do hereby confirm that:

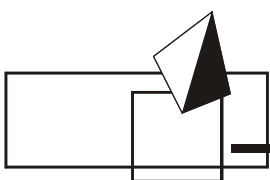
1. The rates quoted during the Contract period will be lowest possible and we shall not quote less rates to any other customer than the rates quoted to HARTRON. In case, we quote less rates than HARTRON to any other customer within 1 month of the NIT, then double of the difference in amount will be refunded to HARTRON. We also confirm that in case our Company/principal officially reduce the price before the delivery or within 15 days from the date of delivery, then the benefit for the same will be passed to HARTRON.



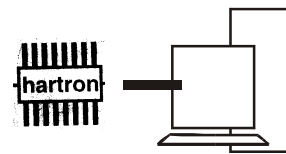
For submission of bid, negotiations and for contract we authorize Mr. (Name & Designation of the representative) of our firm.

(Signature)

Name :  
Designation :  
(Head or Senior  
Executive of Firm)  
Address :  
Phone No :  
Fax No :  
Pager No :  
Mobile No :



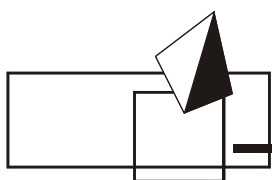
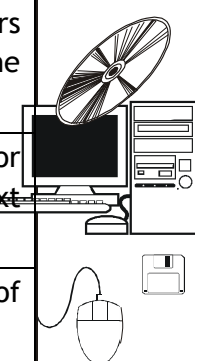




## ANNEXURE-IX

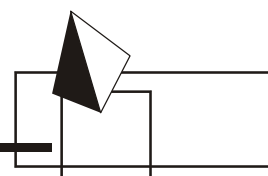
### CONDITIONS OF TENDER DOCUMENT

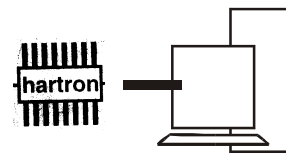
|     |                                 |   |
|-----|---------------------------------|---|
| 1.  | <b>Offer Acceptance</b>         | Offers are to be submitted along with the required documents for this purchase. Offers received without required documents may be ignored.  |
| 2.  | <b>Format</b>                   | Any Document, which is not on the proper form or received late may not be considered.   |
| 3.  | <b>Contract</b>                 | The conditions of contract attached with the Tender Document form be returned duly signed and in case of non-compliance the offer may be ignored.   |
| 4.  | <b>Specification Conformity</b> | Tenders which are not strictly according to the specifications laid down in the forth coming Notice Inviting tender(NIT) will not be considered. Unless a deviation from the specification/ delivery period given is pointed out by the tenderers specifically, it will be presumed that offer conforms to the specifications, delivery period as laid down in the NIT. |
| 5.  | <b>Opening Date</b>             | In case, the date of opening falls on Holiday, gazetted or subsequently declared, the tender will be opened on the next working day following the closed day.   |
| 6.  | <b>Jurisdiction</b>             | All disputes will be settled within the jurisdiction of Chandigarh  |
| 7.  | <b>Offer Discretion</b>         | The quotations will be regarded as constituting an offer or offers open to acceptance in whole or in part or parts till the date as indicated in the Notice Inviting tender(NIT).   |
| 8.  | <b>Writing</b>                  | The offers should be typed or written in ink. Offers in pencil may be ignored.  |
| 9.  | <b>Certification</b>            | If specified in specifications requirement, the firm having ISO 9001/9002/any other certification should furnish the certificates. Further, MD HARTRON reserves its right to ask for any certifications/tests/specifications as per standards laid down from Govt. of Haryana/India from time to time during the validity period in NITs (Notice Inviting Tenders).     |
| 10. | <b>Documents</b>                | Photocopies of all the required documents should be attached with the offer. The vendor should be in a position to produce the original document(s) for verification, if required.  |
| 11. | <b>Sister concerns</b>          | The tenderer will give complete addresses of its sister concerns/authorised dealers along with name of partners with their complete address(es) and extent of share.  |



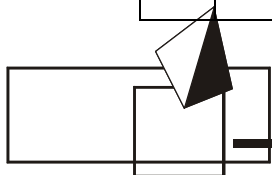
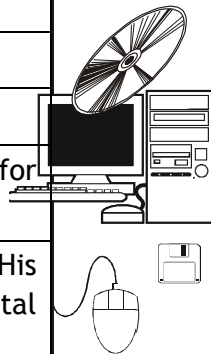


|     |                            |   |
|-----|----------------------------|---|
| 12  | <b>Authentic Signatory</b> | It should also be ensured that tender/quotation has been signed by an authorised person. His name, designation and address should be given in capital letters. Please also indicate the name, designation of the person who signs the contract and who shall have further correspondence in this case.  |
| 13. | <b>Quantity</b>            | HARTRON reserves the right to increase or decrease quantity, subject to the final requirement at the time of placement of order.  |
| 14. | <b>Inspection</b>          | Inspection of the stores will be carried out in the premises of the vendor or at a place to be notified by HARTRON. The testing facilities will be arranged by the vendor.  |
| 15. | <b>Partnership</b>         | The tenderers must attach with their offers the partnership deed or constitution of the firm indicating the name of the proprietor.   |
| 16. | <b>Agreement</b>           | The successful tenderers are required to send the agreement in duplicate as the condition of the contract, tenders for accepted applicable in this case to the firm of issue of acceptance/adhoc/detailed orders by the HARTRON, failing which no acceptance/supply order will be issued and a copy of the same shall be returned to the tenderers duly executed on behalf of MD, HARTRON and second copy will be retained in this office for record.   |
| 17. | <b>Authorisation</b>       | Only manufacturers of their distributors/agents/stockists/ authorized dealers are entitled to submit their tenders. The manufacturers should supply documentary proof i.e. Registration with the Director of Industries, National Small Scale Industries Corporation or with penal of HARTRON. Offers other then the manufacturers should be supported with an authority letter from the manufacturers, authorising them to quote rates standing guarantee for the satisfactory execution of supply orders failing which offers are liable to be ignored. |
| 18. | <b>Past Performance</b>    | Tenderers who are dealing first time with HARTRON are required to furnish particulars of supplies of similar stores made by them during the past three years to various State Govt./Directorate General, Supplies & Disposals, New Delhi/any other Govt. Institutions in the Country, failing which the offers/tenderers are liable to be ignored.  |



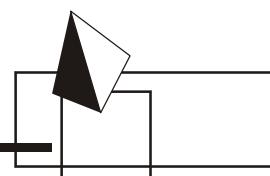


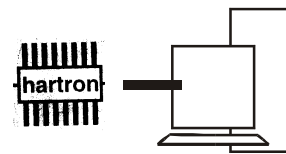
|     |                        |   |
|-----|------------------------|---|
| 19. | <b>Price</b>           | The total landed prices to be quoted against Notice Inviting Tenders should be inclusive of current excise duty, freights, insurance, sales tax etc., failing which the offer may be ignored. However, octroi or other local levies shall be extra if applicable. Further if there is any change in the excise duty by Govt. of India then the same shall be applicable on presentation of the proof. The change in any other duties including sales tax, custom duties effect due to devaluation of Rupee shall not be entertained.  |
| 20. | <b>Validity</b>        | The validity of the quotation/prices should be valid for 60 days from the date of opening of bids unless otherwise specified. If any firm withdraws their offer within the validity period or modifies conditions without approval of HARTRON, the EMD of the firm may be forfeited and the firm may be debarred from doing any business with HARTRON.  |
| 21. | <b>Corrections</b>     | The tenderer must sign each Correction.   |
| 22. | <b>Price Variation</b> | Offer with price variation clause will not be accepted.   |
| 23. | <b>Negotiations</b>    | HARTRON reserves the right to call all or selected parties for negotiations.  |
| 25. | <b>Signature</b>       | An authorized person should sign the tender/quotation. His name, designation and address should be given in capital letters.  |
| 26. | <b>Rates</b>           | The prices offered in the tender for the stores should be lower than the price at which the tenderer supply the stores of identical description to various State Government Institutions/ Undertakings/any other organization during the validity period. If at any time during the validity period the successful tenderer reduces the sale price of quoted stores to any other organization at a price lower than the price chargeable under this supply order/contract, the tenderer should be forthwith notify such reduction to this office, then the prices payable under the supply order/contract for the stores supplied after the date of prices reduction will be reduced to that level. Otherwise double of the difference will have to be refunded to HARTRON. |
| 27. | <b>Payment Terms</b>   | Unless otherwise specified, 80% of payment will be released after inspection and delivery. The balance 20% payment will be released within one month from the date of installation and submission of bank guarantee @20% of the order value. The Bank Guarantee should be valid up to one month more from the date of expiry of warranty period of the system.  |



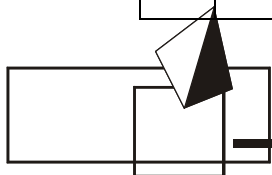
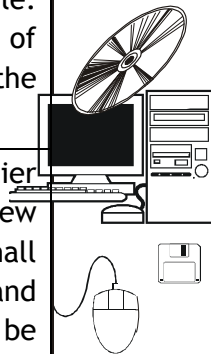


|     |                         |  |
|-----|-------------------------|--|
| 28. | <b>Delivery Period</b>  | Unless otherwise specified, the ordered quantity of stores must be offered for inspection and testing within 2-3 Weeks from the date of placement of confirmed order.  |
| 29. | <b>Warranty Period</b>  | <p>Unless otherwise specified, the warranty will be 12 months from the date of installation or 13 months from the date of delivery, whichever is earlier. However, incase installation will be pending on the part of the supplier then warranty will be 12 months from the date of installation. The firm will repair the Audio Visual Lab Equipments at site for minor faults otherwise faulty Audio Visual Lab Equipments should be replaced within three working days. In case Audio Visual Lab Equipments is not replaced within 3 working days and no alternate arrangement is made by the supplier, a penalty at the discretion of MD, HARTRON @ ₹100/- per day will be imposed on the supplier, for any unjustified delay.</p> <p>Maintenance will be provided at site. Limited/carry in warranty will not be accepted. The supplier will provide after sale service during the warranty period from Chandigarh or from nearest place to installation. The supplier will attend the complaint within 24 hours and not beyond 48 hours.</p> |
| 30. | <b>Acceptance Test</b>  | <p>Acceptance will include the following:</p> <p>A. The system after installation shall be put to testing of the system specs and the program execution specified by HARTRON.</p> <p>B. If required for the acceptance, the vendor has to demonstrate various system specs.</p> <p>C. On successful commissioning, HARTRON may issue an acceptance certificate.</p>  |
| 31. | <b>Responsibilities</b> | It shall be the responsibility of the vendor to keep the system in good working condition so as to ensure a minimum of 95% uptime on monthly basis by carrying out the necessary repairs/maintenance of Audio Visual Lab Equipments, otherwise it shall be treated as a non performance on the part of the vendor for which performance guarantee may be forfeited and firm may be black listed for future business. Warranty period shall be applicable from the date of successful installation.   |



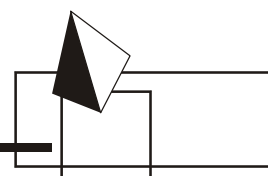


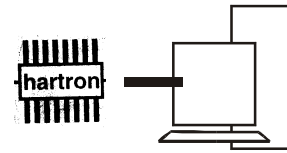
|     |                                    |   |
|-----|------------------------------------|---|
| 32. | <b>Installation</b>                | <p>A. The vendor will install the Audio Visual Lab Equipments immediately at the different locations in the state mentioned by HARTRON, within the delivery period stipulated in the supply order.</p> <p>The vendor shall give the wiring diagrams and the panels required for the system installation in advance. User Department/Organization shall make available the necessary wiring panels at installation site.</p> <p>B. Full details of the space requirement with dimensions should be given in advance.</p> |
| 33. | <b>Training</b>                    | The vendor shall provide operational training, if required.   |
| 34. | <b>Documentation</b>               | <p>Documentation of system software library routines etc. must be provided along with the detailed operating instructions. The documents supplied must be neat, concise and readable. It should be original, licensed copies. The documentation of the hardware should also be provided which covers the mapping and other tunable parameters.</p>  |
| 35. | <b>Re-installation</b>             | If the need arises, the Audio Visual Lab Equipments supplier shall re-install the said Audio Visual Lab Equipments at a new site without any additional charges. The agreement shall stand valid for 1 year. However, Packing, Forwarding and insurance charges for shifting the systems at new site will be borne by the user organization.  |
| 36. | <b>Annual Maintenance Contract</b> | AMC @ ____ (to be offered) of the net hardware price will be optional at the discretion of Managing Director, HARTRON and would become applicable after expiry of warranty period and would remain unchanged for the next 5 years after the warranty period expires.  |
| 37. | <b>Billing</b>                     | The bill shall be raised in the name of the organizations/ departments, which will be mentioned in the order, and the payment shall be released by HARTRON/User Department after the verification of the materials.   |
| 38. | <b>Arbitration Clause</b>          | In the eventuality of any dispute, the sole Arbitrator shall be The Financial Commissioner, IT and his decision shall be binding on all the parties.  |
| 39. | <b>Augmentation</b>                | Supplier shall have to guarantee for a minimum period of 5 years from the date of acceptance that the systems shall be upgraded to the latest version or some additional systems at their negotiated prices (if any).   |
| 40. | <b>Information</b>                 | <b>Vendors must provide following details along with delivery:</b>  |





|     |                             |  |
|-----|-----------------------------|--|
|     | /Documents with the machine | <p>a) Model, detailed specifications, and copy of purchase order.</p> <p>b) His contact address (Contact No., Fax, e-mail)</p> <p>c) Checklist for all parts, accessories, bundled software and software driver.</p>   |
| 41. |                             | <p>The purchase would be decided on the basis of the best valid rates quoted. If it is considered that the best valid rates quoted by L<sub>1</sub> (best valid bid) are not reasonable, the negotiations shall be held only with the L<sub>1</sub> and a counter offer will be made to the L<sub>1</sub>. In case the L<sub>1</sub> bidder does not accept the counter offer, the tender would be dropped and recourse would be taken to invite fresh tenders. Further, in case the L<sub>1</sub> does not have the capability/capacity to execute the complete order, the supply order in excess of the quantity quoted by L<sub>1</sub> could be placed with L<sub>2</sub> (second best valid bid) on the rates quoted by L<sub>1</sub>. Similarly, if the L<sub>2</sub> is also found to be reluctant to supply the stores at such counter offers or the combined capacity of L<sub>1</sub> and L<sub>2</sub> does not meet the supply of complete order, the balance supply order could be placed on L<sub>3</sub> (third best valid bid) at the rates offered by L<sub>1</sub>.</p>  |
| 42. | <b>Purchase Preference</b>  | <p>MD, HARTRON reserves the right to allow Purchase preference upto 50% of the tendered quantities to the Industrial units located in Haryana on the lowest valid rates, provided:</p> <ul style="list-style-type: none"> <li>• The manufacturer firm claims purchase preference in the tender;</li> <li>• The firm submits the registration certificate for the quoted items and valid purchase preference certificate issued by the Industries Department alongwith the tender;</li> <li>• The firm submits an undertaking that their sales office for the purpose of billing is based in Haryana and all the billings are/will be raised from Haryana only;</li> <li>• The gross rates of the firm claiming Purchase Preference are not higher than 10% of the lowest valid gross rates received in tender and the Haryana based firm agrees to the lowest gross rates;</li> </ul> <p>Where more than one tenderer claim Purchase Preference and fulfill all the above conditions, 50% quantity covered under purchase preference may be divided between them on proportionate basis keeping in view the quantity/delivery period quoted by them.</p> |





Annexure -X

## Detailed Technical Specifications of Equipment for Audio Visual Lab

### NOTE:-

1. Chinese products are not acceptable
2. Under audio equipment add digital mixer 24-28 channels (makes acceptable are Yamaha, Sound craft etc.)
3. Condenser tube microphones ( makes acceptable are Shure, Neumann, AKG etc)
4. Active Monitor speakers (Makes acceptable are Genelec, JBL etc.)
5. For lights Chinese company PR is acceptable.

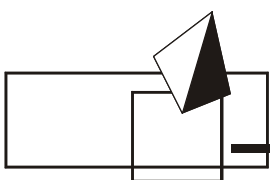
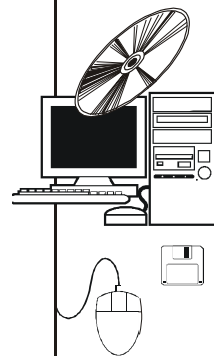
### 1. Digital HD Cameras (for studio): - 2 Nos.

#### Features:

- Optical Image stabiliser
- Slow & Quick Motion function
- Interchangeable Lens System
- 3.5-inch Colour LCD display
- Genlock input
- Remote control for setup

#### Technical specifications

- Imaging Device: 3-Chip 1/2" Full-HD CMOS
- Effective picture elements : 1920 (H) x 1080 (V)
- Aspect Ratio: 16:9,
- Built-in filters: OFF: Clear, 1: 1/8ND, 2: 1/64ND
- Minimum illumination: 0.15 lux or better
- S/N ratio: 54 dB (Y)
- Shutter speed: 1/33 to 1/2000 sec.
- Slow Shutter: 2-, 3-, 4-, 5-, 6-, 7-, 8-, 16-, 32-, and 64-frame accumulation
- Processing: 14 bit A/D Conversion or better,
- Sensitivity: F10
- Horizontal Resolution : 1000 TV lines or better,
- Recording format
  - Video : MPEG-2 Long GOP HQ mode: VBR, maximum bit rate: 35 Mb/s, MPEG-2 MP@HL; SP mode: CBR, 25 Mb/s, MPEG-2 MP@H14
  - Audio: Linear PCM (2ch, 16-bit, 48-kHz)





- Recording frame rate: HQ mode: 1920 x 1080/50i, 25P, 1280 x 720/50P; SP mode: 1440 x 1080/50i
- Recording Media Type: ExpressCard/34 (x 2); ExpressCard compatible interface
- Inputs: HD-SDI ,Audio, Microphone
- Outputs: Composite video, SDI, Audio, Headphone,
- Other I/O: IEEE, USB
- Lens:
  - Zoom Ratio - 14x (optical), servo/manual
  - Minimum focal length 5.8 mm
  - Zoom and focus servo/manual controls;
  - Focus : AF/MF/Full MF selectable

*Essential Accessories:*

- Remote control - 1No.
- Battery Charger/ AC Adaptor for Battery - 2No.
- Rechargeable Battery Pack (50Wh minimum) - 4 Nos.
- Memory Card (16 GB) - 4 Nos.
- Tripod - 2 Nos.
  - Payload: More than 40 Kg
  - Tilt range: +/-90°
  - Pan 360 degree
  - Pan bar, Spreader, carrying case
  - Dolly with Lockable caster-wheels
- **Camera Supports** - 2 Nos.

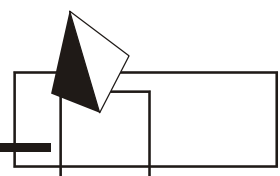
**2. Digital HD Cameras (for ENG):** - 1 No.

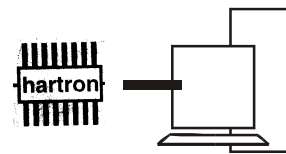
*Features:*

- Optical Image stabiliser
- Slow & Quick Motion function
- Interchangeable Lens System
- 3.5-inch Colour LCD display
- Genlock input
- Remote control for setup

*Technical specifications*

- Imaging Device: 3-Chip 1/2" Full-HD CMOS
- Effective picture elements : 1920 (H) x 1080 (V)
- Aspect Ratio: 16:9,
- Built-in filters: OFF: Clear, 1: 1/8ND, 2: 1/64ND
- Minimum illumination: 0.15 lux or better
- S/N ratio: 54 dB (Y)
- Shutter speed: 1/33 to 1/2000 sec.
- Slow Shutter: 2-, 3-, 4-, 5-, 6-, 7-, 8-, 16-, 32-, and 64-frame accumulation





- Processing: 14 bit A/D Conversion or better,
- Sensitivity: F10
- Horizontal Resolution : 1000 TV lines or better,
- Recording format
  - Video : MPEG-2 Long GOP HQ mode: VBR, maximum bit rate: 35 Mb/s, MPEG-2 MP@HL; SP mode: CBR, 25 Mb/s, MPEG-2 MP@H14
  - Audio: Linear PCM (2ch, 16-bit, 48-kHz)
- Recording frame rate: HQ mode: 1920 x 1080/50i, 25P, 1280 x 720/50P; SP mode: 1440 x 1080/50i
- Recording Media Type: ExpressCard/34 (x 2); ExpressCard compatible interface
- Inputs: HD-SDI ,Audio, Microphone
- Outputs: Composite video, SDI, Audio, Headphone,
- Other I/O: IEEE, USB
- Lens:
  - Zoom Ratio - 14x (optical), servo/manual
  - Minimum focal length 5.8 mm
  - Zoom and focus servo/manual controls;
  - Focus : AF/MF/Full MF selectable

*Essential Accessories:*

- Battery Charger/ AC Adaptor for Battery - 1No.
- Rechargeable Battery Pack (50Wh minimum) - 2 Nos.
- Memory Card (16 GB) - 2 Nos.
- Tripod - 1 No.
- Payload: More than **15 Kg**
- Tilt range: +/-90°
- Pan 360 degree
- Pan bar, Spreader, carrying case
- Dolly with Lockable caster-wheels
- **Camera Support** - **1 no.**
- **Carry bag for Camera and Tripod** - **2 no**
- **Portable outdoor lighting kit consisting of 5 lights - 1 set**

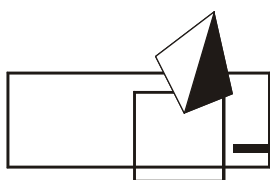
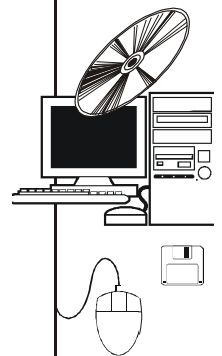
*Optional Accessories:*

- Wide conversion lens with adaptor (if required)
- Professional Hard Disk Unit for long duration recordings.
- Memory Card USB Reader/Writer

**3. HD/SD Video Switcher - 1No.**

*Features:*

- 1 M/E HD/SD Digital/Analogue Video Switcher
- 4 SDI Inputs with Frame Syncs and Up Converters
- 16 channel Multi viewer with tally and titles.





- 3D-DVE Transitions.
- Keyer with 2 x P-in-P
- 2D-DVE. DSK with 2D-DVE.
- 4 SDI outputs (Program & Aux.)
- On Screen Display operation mode.
- Stills Store

*Technical Specifications:*

*Input Resolutions:*

- HD mode (1080i): 1024 x 768 (XGA), 1280 x 1024 (SXGA), 1600 x 1200 (UXGA), 1280 x 768 (WXGA), 1680 x 1050 (WSXGA), 1920 x 1200 (WUXGA)
- SD mode: 640 x 480 (VGA), 800 x 600 (SVGA), 1024x768(XGA)

*Output Resolutions:*

- HD mode: 1280 x 1024 (SXGA), 1600 x 1200 (UXGA), 1680 x 1050 (WSXGA), 1920 x 1200 (WUXGA)
- SD mode: 800 x 600 (SVGA)

**Essential subsystems:**

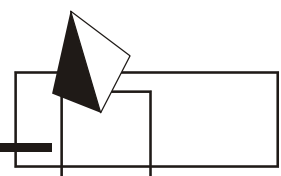
- Tally Interface unit with power supply
- 8 channel Intercom/talkback system with four belt packs for studio communication.
- Complete Earset with ¼” Straight Connector & Eartube for Presenter
- 50” LCD Monitor for Video Monitoring
- **20”/21” Broadcast Monitor ( B grade) 1080 i/50 HD**

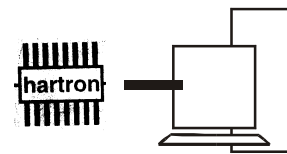
**4.Audio Monitoring Systems (Active Speakers) - 4Sets (Pairs).**

**(Studio-1, Control room-1 and NLE-2) (Makes acceptable are Genelec, JBL etc.)**

*Technical Specifications:*

- Waveguide-loaded high-frequency drivers
- 8” low-frequency drivers
- 130 watts of bi-amplified power
- magnetic shielding
- frequency response: 40Hz-22kHz
- Maximum noise (dynamic range): > 100dB (typical A-weighted)
- Input impedance: 20k ohms balanced/10k ohms unbalanced or higher
- Input sensitivity: 85 mV
- Power: 230V ~50/60Hz





- Protection: RF interference, output current limiting, over temperature, turn-on/off transient, subsonic filter, mains fuse
- Size: Not less than 12" x 10" x 15"

## **5. Microphones:**

### **A. Shotgun Microphone - 4 Nos.**

- Capsule Type: Electret Condenser
- Directivity: Uni-directional (super-cardioid)
- Dynamic Range: 107 dB or more
- Frequency Response: 40 Hz to 20 kHz or better
- Inherent Noise : 17 dB SPL or less
- Max SPL : 124 dB SPL
- Output Impedance at 1kHz (Balanced) : About 200 Ohms
- S/N Ratio: 75 dB or more
- Sensitivity: better than -30 dB
- Wind Noise: 50 dB SPL or better
- Colour : Black

#### *Supplied Accessories:*

- Windscreen
- Mic. Holder
- Mic. Spacer
- XLR Cable
- Operation Manual

### **B. Clip on/Lapel Microphones - 6 Nos.**

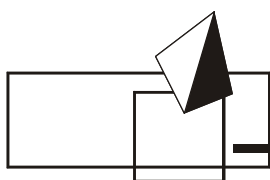
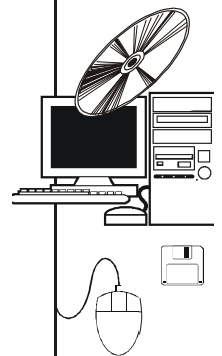
#### *Technical Specs:*

- Pick-up pattern : omni-directional
- Sensitivity (1 kHz) : 10 mV/Pa  $\pm$  2.5 dB
- Frequency response : 20 - 20,000 Hz  $\pm$  3 dB
- Nominal impedance : 50 ohms
- Max. SPL (1 kHz): 130 dB (THD = 1 %)
- Power supply phantom: 12 - 48 V
- Connector: 3-pin XLR with integral phantom power adaptor
- Cable length: 3 m

### **C. Wireless Lapel Microphone - 1 No.**

#### *Technical Specifications:*

- Modulation: wideband FM
- Frequency ranges : UHF
- Transmission/Receiving frequencies : 20 channel banks,
- Noise reduction system





- Clip-on/lapel microphone:omni-directional
- Audio frequency response : 25Hz. - 18KHz or better
- S/N ratio (at 1mV and peak deviation)  $\geq 100$  dBA
- THD (at nominal deviation and 1 kHz)  $\leq 1$  %
- RF output power at 50 ohm : typ. 30mW
- Power supply 2 AA batteries, 1.5 V
- Operating time (Typical): 8hour or more
  
- Receiver principle : Diversity
- Sensitivity :  $< 2,5 \mu\text{V}$  at 52 dBA
- Adjacent channel rejection  $\geq 65$  dB
- Intermodulation attenuation  $\geq 65$  dB
- Pilot-tone squelch detachable
- AF output voltage (at peak deviation, 1kHz AF) : +12 dBu
- Power supply 2 AA batteries, 1.5V
- Operation time typ. 8h

**D. Hand Held wireless Microphone transmitter with rack mount receiver - 2 Nos.**

*Handheld transmitter*

- RF output power at 50 ohm : typ. 30/10mW, switchable
- AF frequency response : 25 – 18.000 Hz (Line); 80 – 18.000 Hz (Mic)
- Connector : XLR
- Max. input voltage transmitter : 3 Veff
- Power supply 2 AA batteries, 1.5 V
- Operating time typ. 8h

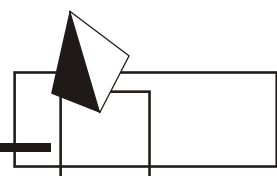
*Rack mount Receiver*

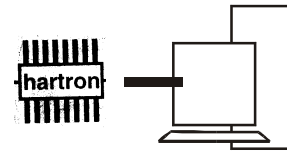
*Features:*

- Sturdy metal housing
- High-quality true diversity reception
- Pilot tone squelch
- Automatic frequency scan
- Wireless synchronization of transmitter parameter from receiver
- Illuminated graphic display, receiver also shows transmitter settings
- Auto-Lock function to avoid accidental change of settings
- Receiver shows transmitter battery indication
- Integrated Equalizer and Sound check mode

*Technical Data*

- RF frequency range : UHF
- Presets :  $> 30$
- Frequency response (microphone) :  $\geq 25$  to 18 KHz
- Signal-to-noise ratio :  $> 115$  dB (A)





- THD : < 1 %
- Antenna connector: 2 BNC, 50 Ohm
- Audio output level (balanced); XLR: >15 dBu
- Audio output level (unbalanced) : >10 dBu

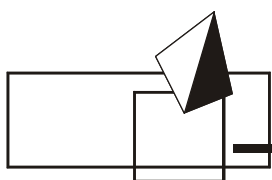
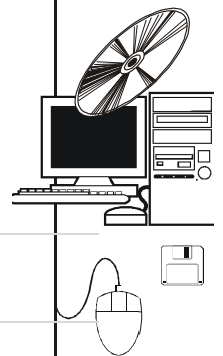
## **6. Tapeless Recorder - 2 Nos.**

### *Features:*

- MPEG HD recording and playback at 35 and 25 Mb/s
- Equipped with two SxS PRO memory card slots
- Built-in 3.5-inch\* LCD monitor
- Down-converted SD outputs for migration to SD environments
- HDMI output for digital connection
- Adjustable audio input volume

### *Technical Specifications:*

|                         |   |
|-------------------------|---|
| Recording Format        | Video: MPEG-2 Long GOP<br>HQ mode: VBR, maximum bit rate: 35 Mb/s,<br>MPEG-2 MP@HL<br>SP mode: CBR, 25 Mb/s, MPEG-2 MP@H14<br>Audio: Linear PCM (2ch, 16-bit, 48-kHz) |
| Playback Format         | MPEG HD: 1080/59.94i, 50i, 29.97P, 25P, 23.98P<br>MPEG HD: 720/59.94P, 50P, 29.97P, 25P, 23.98P   |
| Recording Frame Rate    | PAL setting:<br>HQ mode: 1920 x 1080/50i, 25P*, 1280 x 720/50P<br>SP mode: 1440 x 1080/50i  |
| Recording/Playback Time | HQ mode: Approx. 100 min. with 32 GB memory<br>SP mode: Approx. 140 min. with 32 GB memory  |
| Built-In Display        | 3.5-inch color LCD monitor, 16:9  |
| Composite Output        | BNC (x 1), NTSC or PAL  |
| Component Output        | BNC (x 3)   |
| Audio Input             | Analog (CH-1,CH-2); SDI   |
| Audio Output            | Analog (CH-1,CH-2) ; SDI ; Headphone Output   |
| Other I/O               | HDMI ; i.LINK; USB  |
| Media Type              | ExpressCard/34 slot x 2   |
| Power Supply            | 220V/50 Hz.   |
| Accessories             | SDHC Card adaptor ; Media Adaptor   |





## **7. Audio Mixer**

- **1 No.**

### *Key Features:*

- 26 inputs
- 16 mono microphone channels.
- 4 stereo returns
- 4-bus architecture, with sub-group routable to mix
- Built-in 24 bit digital effects processor
- 32 FX settings
- User FX settings store function
- Direct outputs for multi-track recording individually switch-able for pre-post-fade operation
- Inserts on all mono channels
- Inserts on stereo mix output
- 3-band EQ with swept mid-band
- Dual global +48V phantom power split channels 1-8 and 9-16
- Channel Mute control
- Two sub-group outputs
- Separate mono sum output
- Integral universal power supply

### *Technical Specifications:*

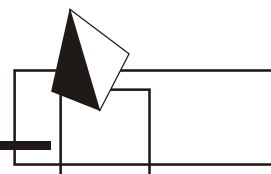
- Frequency Response : 20Hz — 20kHz +/-1dB,
- T.H.D. : < 0.01%
- Mic Sensitivity -30dBu+14dBu
- Noise (Mic Input) : < -120 dBu
- Channel Mute: > 96dB
- EQ (HF, MF and LF) : +/-15dB ; Q: 1.5

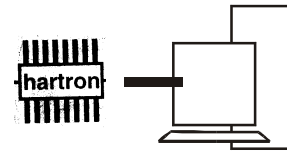
## **8. Teleprompter**

- **1No.**

### *Technical Specifications:*

- Display: 15" (38.4cm) 1024x768 color VGA LCD
- 60/40 Glass beam splitter
- Wireless USB scroll control
- Flip-Q Pro Dual output, reversing PC software
- Power Flip PowerPoint software
- Software loaded on USB flash drive
- Precision, adjustable aluminum frames
- Nylon lens shade
- Nylon side curtains
- VGA, composite and SHVS monitor inputs
- 25' VGA Extension cable
- Adjustable Height Riser adjustable in 0.5" increments
- Adjustable Mirror Angle with a single knob.
- Mounting hardware: Black anodized aluminum

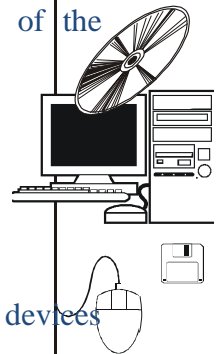




- **Multilingual font support**

- **Desktop Computer for teleprompter ( As per Specifications given under)**

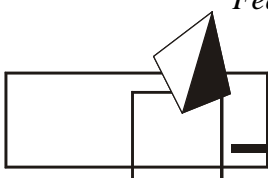
|                        |   |
|------------------------|---|
| Processor              | Processor: Intel Core i3-530 or higher  |
| Speed                  | 2.93 GHz or Higher  |
| Cache                  | 4 MB L3 Cache   |
| System                 |   |
| Bus/QPI                | 2.5 GT/sec  |
| Chipset                | Intel 5 series Chipset or better (Intel only)   |
| Mother Board           | Original Intel or OEM manufactured  |
| Memory                 | 2 GB DDR-III RAM (1066 MHz) or higher RAM   |
| Hard disk Drive        | 500 GB SATA (7200 RPM)  |
| Keyboard               | 107 keys Standard keyboard  |
| Expansion Slots        | Minimum 1 PCI & 1 PCI Express x16 (Total 3 slots either of the combination).  |
| Housing                | Micro ATX Cabinet   |
| Video Graphics         | Integrated Graphics with Free slot for additional Graphics card   |
| I/O Interface          | Dual Channel serial ATA-150 controller  |
| Ports                  | Minimum 6 USB Ports atleast 2 USB Ports at front side.  |
| Power Supply           | Suitable power supply to meet the requirement of additional devices (Power efficiency >=85%)  |
| Sound Card             | Integrated  |
| OS                     | Window XP/ Vista/Windows 7 / Linux  |
| Supported Storage Bays | Minimum two External 13.35cm (5.25") and one Internal 8.90 cm (3.5")/ one 13.5 (5.25") & one 8.9 (3.5") external bays and one internal 8.9 cm (3.5") storage base |
| Mouse                  | Optical mouse with Pad  |
| Monitor                | 18.5" TFT (Wide Screen) or higher TCO 03/05 Certification   |
| Optical Drive          | 16X Internal DVD Writer   |
| Ethernet Card          | 10/100/1000 MBPS  |
| Preloaded Software     | Windows 7 Professional 32 bit with media, Antivirus software preloaded  |
| Certification          | ISO 9001/9002, Energy star 5.0 Compliant, FCC, UL,CE  |
| Other items            | Set of Dust Covers of good quality for the complete system  |



**9.Programme Ingest and Storage Server**

- **1 System**

*Features:*





- Multi-channel capturing of live video feeds
- Automated file split of the recorded video at user-defined periods
- User-definable file naming for easy date and time location
- Date and time embedding in captured video stream
- VU/peak meter for input audio level monitoring
- Capable of completely unattended 24/7 operation
- Automated removal/transfer of expired files
- Non-stop or scheduled recording
- Indicator for available storage for easy storage space overview

*Technical Specifications:*

Video Compression Formats:

- MPEG1, MPEG2, DV, H.264/AVC, WMV/VC-1
- MPG (System or Program Stream)
- M2T/TS (Transport Stream); WMV; AVI

Bit Rate

- 256 kbit/sec - 1 Mbit/s for MPEG1
- 1 - 50 Mbit/s for MPEG2 SD
- 10 - 100 Mbit/s for MPEG2 HD
- 1 - 10 Mbit/s for AVC/H.264
- 1.3 - 8 Mbit/s for WMV9/VC-1

Colour Sampling

- 4:2:0
- 4:2:2

Audio Compression Format

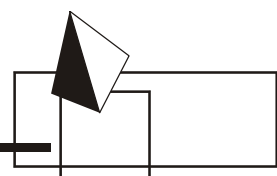
- MPEG audio Layer 2
- Windows Media Audio
- AAC
- Uncompressed PCM
- WAV or multiplexed with video
- Sampling 48kHz

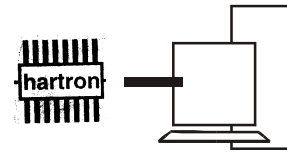
Bit Rate

- MPA: 64 - 384 kbit/sec
- WMA: 64 - 192 kbit/sec

*System Hardware:*

- Intel® Xeon® 2.33GHz quad-core processors;8GB DDR2-667 memory with ECC;
- Linux based OS on Flash memory module,
- Unlimited User license;
- 3 rack-mountable Redundant Power supply
- Host Interface 6 x Gigabit Ethernet with load-balancing,
- SATA controller with support for Hardware RAID 0, 1, 10, 5 & 6 ,  
1GB
- Battery backed cache





- Support up to 16 hot-swap SATA HDDs
- Populated with 12 x 1000GB, 7200RPM, SATA hot-swappable HDDs configured as a RAID 6 array

**10.Multimedia Computer** - **1 No.**

**Multimedia PC:- Technical Specification Genuine Windows 7 Home Premium 64 bit Edition 21.5” LCD Monitor intel core i7 920 Processor (2.66GHz, 8MB L3 Cache)ATI Radeon HD 4350 Graphics, 6GB DDR3 RAM, 1 TB Hard Disk, DVD Writer, Sound Blaster X-Fi Audio, Multimedia Keyboard, Optical Mouse with 2 X 10 watt speakers.**

**Optional: 8 port switch for integration**

**11.Professional Studio Lights** - **12 Nos.**

- 55Watts Analog & Manual dimming, cool Lights complete with
  - electronic control gear, lamps, reflector, pole operated yoke, cable, Plug with Intensifier, Honeycomb Grid for Intensifier, Filter/Gel Frame & clamp with 4 leaf Barn doors.
- 650 W Fresnel Spot Light complete with
  - Lens, semi spherical reflector, holder base, Lamp, focus defocus, Pole Operated yoke, cable, Industrial plug, 4 leaf Barn doors, Filter/Gel Frame, Clamp & Scrim.
- 24 Channel Control Console for Hard & Cool Lights with required devices, interfaces, Cables & Connectors

**Note:** The Lights would be hanged in the studios with a provision of suitable hanging system.

Lights should be suitably distributed in the studio Area. The drawings of light placement in studio should also be submitted.

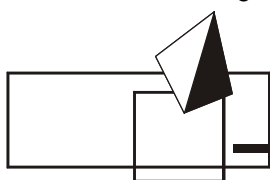
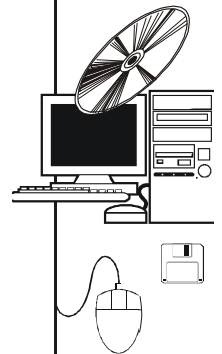
**12.Non-Linear Editing System** - **2Nos.**

Mac Pro - 2.8GHz Quad Core Intel Xeon/3GB memory/1TB internal storage/Radeon 5770 HD graphics, Keyboard, mouse with

- Decklink HD extreme board
- Extra Storage:3 TB
- 22" LCD Monitor
- APC UPS 2KVA Offline
- Editing Software: Final Cut Studio ( latest version)

**13.Graphic and Compositing System** - **1No.**

- Workstation: Intel Quad Core Dual Processors, 4 GB RAM, 500 GB HDD, DVD RW Drive, Gigabit Ethernet, 1394a, Keyboard, Mouse with
  - 1GB NVIDIA Quadro Graphic Card,
  - 22" TFT Monitor





- Window XP/ Vista/Windows 7
- Adobe CS5 Master Collection Adobe Master Collection [Latest version Academic Edition](#)
- APC UPS 2KVA Offline
- **Coral Draw software latest version Academic Edition**
- **3 D max software latest version Academic Edition**

#### **14. DVD Publishing System: - 1 No.**

- **Disc Capacity :** 20 discs
- **Recording Speeds:** CD: 40x, DVD: 20x, DVD-DL: 10x
- **Recordable Formats:** CD: CD-R, CD-RW, CD-Audio (CD-DA), Video-CD, MP3, CD- Audio etc. ; DVD: DVD±R, DVD±RW, DVD±DL
- **Print Method :** Inkjet
- **Print Resolution :** Up to 4800 dpi
- **Colors** 16.7 million
- **Software :** Publishing and designing Software (for PC and Mac)
- **Media Types:** Printable-surface DVD±R and CD-R; standard or water-resistant
- **Power supply :** 100-240 VAC, 50Hz
- **Data Interface:** USB 2.0

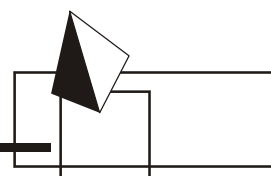
#### **15. Parallel Redundant Un-Interrupted Power Supply (3 phase Input/ 3 phase output) - 1 No. (1set)**

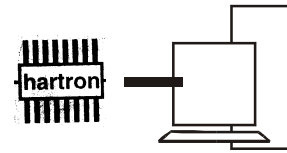
*Technical Specifications:*

- Output Power Capacity : 8 kW / 10 kVA ( [true on line double conversion with inbuilt galvanic isolation](#))
- Nominal Output Voltage: 400 V/415 (  $\pm 1\%$  ) 3 Ph 4 wire
- Efficiency at Full Load : 95% or better
- Output Voltage Distortion: Less than 5% at full load
- Output Frequency (sync to mains) : 47 - 53 Hz for 50 Hz nominal
- Crest Factor : Unlimited ( **3:1**)
- Waveform Type : Sine wave
- Nominal Input Voltage : 400/415V 3PH
- [Input Power Factor :  \$\geq 0.95\$](#)
- Input Frequency : 40 - 70 Hz (auto sensing)
- Input voltage range for main operations : 305 - 470V
- Battery Type : Maintenance-free sealed batteries
- Typical Backup Time: 30 minutes [on each UPS](#)
- Alarms: Audible and visible alarms
- Emergency Power Off : Yes

#### **16. Studio Acoustics - 1 Job**

The studio acoustics should be done specifically for the talk shows in the studio. Studio dimensions are given in the enclosed drawing. [All doors,](#)





observation window and any new erected wall should provide an isolation of 60 dB or more. The studio noise criteria should be NC-30 or better.

### **17. Equipment required for installation, integration** -

#### **1 Job**

- All required essential devices and accessories including Glue devices/interfaces units, Gigabit Switch with 2 Combo Ports (D-Link /DAX/Cisco/Nortel/Extreme/Linksys or better), 9U Wall Mount Rack with accessories like power strip, cable manager, fan etc. (HCL /ComRack or better), UTP 6 / 6(A) Cables (D-Link / DAX / AMP/Molex), RJ45 Connectors (D-Link / DAX / AMP/Molex), I/O with SMB Cat6 / 6(A) (D-Link / DAX / AMP/Molex), 24 Port Patch Panel with Cable Manager (D-Link / DAX / AMP/Molex), Patch Cords 3” / 7” 6/ 6(A) (D-Link / DAX / AMP/Molex), KVM extenders, KVM switches, tie tags, pheruls etc. to make systems functional.
- Technical Furniture/fittings/fixtures for equipment mounting and placement.
- Studio warning lights to be provided..
- All the input and output of the equipment to be routed through patch panel.

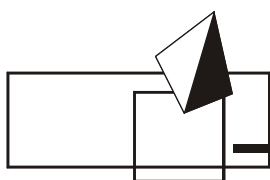
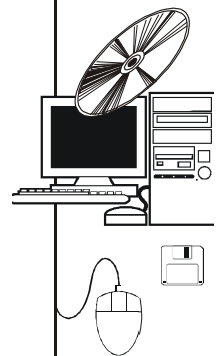
### **18. Installation, Commissioning and Training** - 1 Job

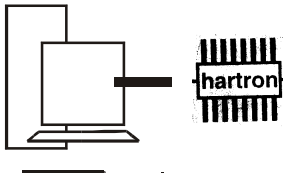
- All systems should be supplied, installed, integrated, tested and commissioned for seamless workflow.
  - Onsite Training on all equipment for at least 4 weeks to be given to the user Department, which includes, General Studio Operational training, Post Production training, Graphic and composition training.

### **19. Miscellaneous items:**

The tenderer should also quote for various audio-video cables, connectors, CD-R/DVD±R Media and other recording media, spares and tools etc. required for carrying out routine maintenance of equipment and services related to content creation and distribution.

The offered lab Equipments should be equivalent or better in terms of required specifications, quality, functionality etc.



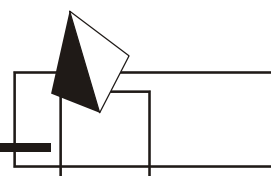


Annexure-XI

Format of Commercial Bid:-

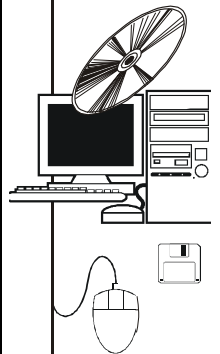
Rates of Audio Visual lab Equipments inclusive of all taxes & duties with & without form C & VAT C-3 form separately **with 2 year warranty**, FOR destination and installation at site in the following format for all the required items as per technical bid:-

| s.no. | Item  | Unit Price with form "C" | Unit Price without form "C" | Unit Price with VAT "C-3" form | Unit Price without VAT "C-3" form |
|-------|---|--------------------------|-----------------------------|--------------------------------|-----------------------------------|
| 1.    | <b><u>Digital HD Cameras (for studio):</u></b>  |                          |                             |                                |                                   |
| 2.    | <b><u>Digital HD Cameras (for ENG)</u></b>  |                          |                             |                                |                                   |
| 3.    | <b><u>HD/SD Video Switcher</u></b>  |                          |                             |                                |                                   |
| 4.    | <b><u>Audio Monitoring Systems (Active Speakers) - 4Sets (Pairs). (Studio-1, Control room-1 and NLE-2)</u></b>  |                          |                             |                                |                                   |
| 5.    | <b><u>Microphones</u></b><br>A. Shotgun Microphone<br>B. Clip on/Lapel Microphones<br>C. Wireless Lapel Microphone<br>D. Hand Held wireless Microphone transmitter with rack mount receiver<br>E. |                          |                             |                                |                                   |
| 6.    | <b><u>Tapeless Recorder</u></b>   |                          |                             |                                |                                   |
| 7.    | <b><u>Audio Mixer</u></b>   |                          |                             |                                |                                   |
| 8.    | <b>a. <u>Teleprompter</u></b><br><b>b. <u>Desktop Computer for teleprompter</u></b>   |                          |                             |                                |                                   |
| 9.    | <b><u>Programme Ingest and Storage Server</u></b>   |                          |                             |                                |                                   |

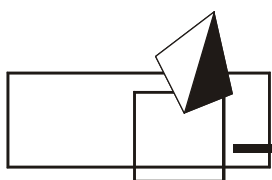


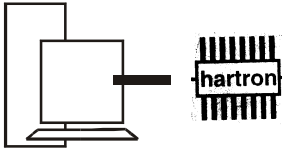


|    |   |  |  |  |  |
|----|---|--|--|--|--|
| 10 | <b><u>Multimedia Computer</u></b>   |  |  |  |  |
| 11 | <b><u>Professional Studio Lights</u></b>  |  |  |  |  |
| 12 | <b><u>Non-Linear Editing System</u></b>   |  |  |  |  |
| 13 | <b><u>Graphic and Compositing System</u></b>  |  |  |  |  |
| 14 | <b><u>DVD Publishing System</u></b>   |  |  |  |  |
| 15 | <b><u>Redundant Un-Interrupted Power Supply (3 phase Input/ 3 phase output)</u></b> |  |  |  |  |
| 16 | <b><u>Studio Acoustics ( 1job)</u></b>  |  |  |  |  |
| 17 | <b><u>Equipment required for installation, integration ( 1 job)</u></b>             |  |  |  |  |
| 18 | <b><u>Installation, Commissioning and Training ( 1 job)</u></b>                     |  |  |  |  |
| 19 | <b><u>Miscellaneous items</u></b>   |  |  |  |  |



Detail specifications as per Technical bid.





Site Drawing

