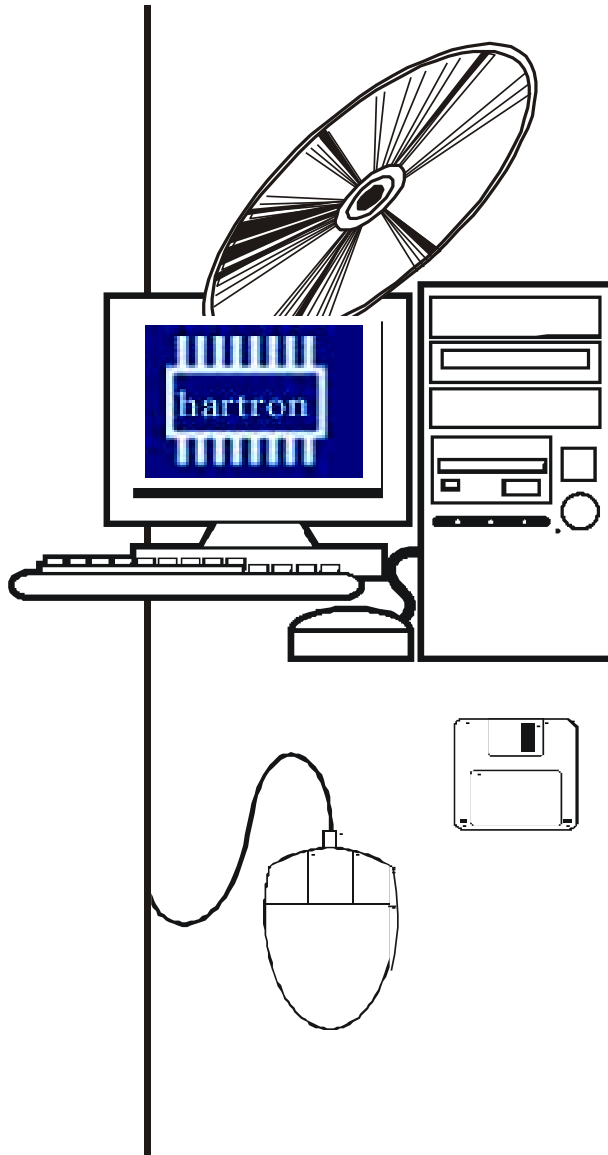
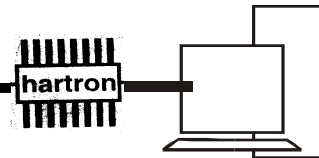


Adv. No: -HARTRON/MSG/2010-11/10	Sr. No.:	Date:
DATE OF CLOSING: 07-03-2011	DATE OF OPENING: 08-03-2011	



**TENDER DOCUMENT**

**For  
Structured LAN  
in  
Haryana Civil Secretariat, New Secretariat  
Haryana & 30 Bays Building on trunking basis**



Adv. No: - HARTRON/MSG/2010-11

Tender No. 10

S# \_\_\_\_\_

Date \_\_\_\_\_

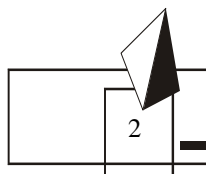
To \_\_\_\_\_

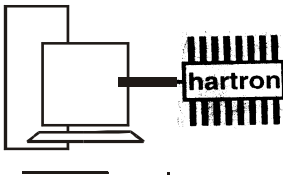
Sale of Tender Document	:	<b>9:00 AM to 5:00 PM on all working days starting from 10/02/2011 till 07/03/2011</b>
Cost of Tender Document (Non-Refundable)	:	<b>Rs.2000/- (if downloaded from website, attach Demand Draft of Rs.2000/- along with EMD)</b>
Earnest Money Deposit	:	<b>5.00 Lacs in the form of D. D.</b>
Pre Bid Conference	:	<b>03:00 PM on 23-02-2011</b>
Last Date For Submission of Bid	:	<b>08-03-2011</b>
Time	:	<b>02:30 PM</b>
Date Of Tender Opening	:	<b>08-03-2011</b>
Opening Time (Technical Bid)	:	<b>03:00 PM</b>
Instructions To Tenderer	:	<b>Part – A (Section 1 to 5)</b>
Terms And Conditions	:	<b>Part – B (in continue to part – a)</b>
Technical Specifications & Scope of Work	:	<b>Part – C (Technical Specifications &amp; Scope of Work for Haryana Civil Secretariat, New Secretariat Haryana &amp; 30 Bays Building LAN)</b>
Check List	:	<b>For Bid Submission</b>
Annexure	:	<ul style="list-style-type: none"><li>• General Information of Bidder: Form – 1</li><li>• Particulars of Turnover : Form – 2</li><li>• Details of Staff : Form – 3</li><li>• Experience and track record in the field of the setting up of LANs : Form – 4</li><li>• Manufacturers Authorisation certificate : Annexure – 1</li><li>• Undertaking of rates : Annexure – 2</li><li>• After sales service form : Annexure – 3</li><li>• Certificate of acceptance : Annexure – 4</li><li>• Technical Bid Form: Annexure – 5</li><li>• Statement of Technical Compliance &amp; Deviation with Technical Evaluation Sheet and Criterion for Technical Evaluation: Annexure – 6, 6A, 6B, 6C</li><li>• Address of Service / Support Center in Chandigarh : Annexure – 7</li><li>• Commercial Bid Form : Annexure – 8</li><li>• Statement of Price : Annexure – 9</li><li>• Commercial Deviation : Annexure – 10</li><li>• Declaration Regarding Clean Track Record : Annexure – 11</li></ul>

**(Roshan Lal)**

Assistant General Manager (MSG)

HARTRON





**PART – A**

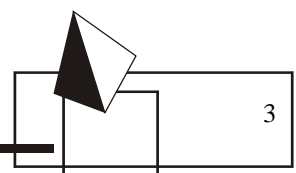
**SECTION – I  
INSTRUCTIONS TO TENDERERS**

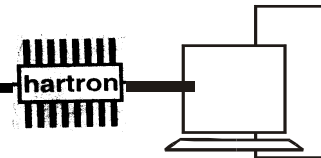
1. Quotation must be enclosed in a properly sealed envelope addressed to the Managing Director, HARTRON with kind attention to Asstt. General Manager (MSG), HARTRON by designation and not by name. The quotations must be super scribed “**Quotations for the supply, Installation & Commissioning of Structured LAN in Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building on Trunkey basis as called for in Tender Notice No HARTRON/MSG/2010-11/10**” The quotations must reach the Asstt. General Manager (MSG), HARTRON on and before **08/03/2011 up to 2.30 PM**.
2. In the event of quotations being submitted by a 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 quotations should be executed in the manner laid down in the said Company’s Articles of Association. The signatures on the quotations shall be deemed to be authorized signatures.
3. All the columns of the quotation form shall be duly, properly and exhaustively filled in. The rates and units shall not be overwritten. Quotations shall always be both in the figures and words. The words “No quotations” should be written across any or all of the items in the schedule for which a tenderer does not wish to tender.
4. Any omission in filling the columns of “units” and “rate” shall altogether debar a quotation for being considered.
5. All corrections must be signed by the tenderers.
6. **EMD: EMD of Rs. 5.00 lacs has to be deposited in the form of Demand Draft payable to HARTRON, Chandigarh.**
7. The Managing Director, HARTRON will have the right of rejecting all or any of the quotations without assigning reason.
8. No tender will be considered unless and until all the documents are properly seal & signed by concerned authorities.
9. The quotations will be regarded as constituting an offer or offers open to acceptance in whole or in part or parts at the discretion of Managing Director, HARTRON.
10. **The Pre Bid Conference is scheduled on 23/02/2011 at 03:00 PM in the Board Room of Hartron. The bidder (s) who has submitted the tender document fee by the time will be eligible to participate in pre bid conference. The amendment if any issued by the Corporation on the basis of suggestions / discussions in pre bid will become the part of tender document and the same will be uploaded on the website of the Hartron i.e. [www.hartron.org](http://www.hartron.org) & SIT i.e. [www.haryanait.nic.in](http://www.haryanait.nic.in). The bidders are also advised to visit the aforementioned website on regular basis for checking necessary updates**

In the event of tender being accepted, the quotations will be converted into contract, which will be governed by the conditions.

Read and Accepted.

Signature of the Tenderer with seal

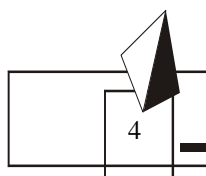


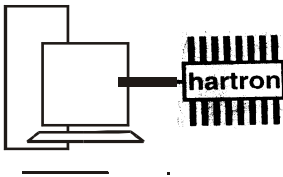


## SECTION-II

### SCOPE OF THE WORK

- 2.1 The firms are required to lay network cables and supply hardware (active & passive components as per specifications mentioned in Part-C), Install this hardware in all respect and commissioning of LAN including provide onsite warranty for the period of 3 years and AMC for the period of 5 years after warranty.
- 2.2 Objective of the networking is to develop Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN intranet and access intranet and mail services through common gateway.
- 2.3 Objective of up-gradation of Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN is to connect the all floors with 10G backbone in such a way that the upgraded network reuses most of existing LAN infrastructure while maintaining perfect inter-operability with existing NIC NET & Haryana SWAN (ADHAAR). It should be designed in the way that it works with existing NIC NET, Haryana SWAN routers, switches, CISCO IP phones & Video Conferencing equipments (All these are the different models of CISCO & POLYCOM).
- 2.4 The Site is Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN, Chandigarh.
- 2.5 The contract will cover the system design, delivery, implementation & commissioning followed by a 3-year onsite warranty period, followed by an optional annual maintenance period (AMC) or multi-year extended warranty period till next 5 years after warranty.
- 2.6 The proposed sites (Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building) are within Chandigarh. The methodology of conducting & cabling an installation work, to be adopted, has to ensure minimum damage to the existing finish and no loss to the aesthetic beauty of the floors. Any damage to the existing flooring / walls etc. shall be made good by the bidder. It is advised that bidder should visit the site before submitting the bid to get apprised about the site conditions.





## SECTION-III

### Eligibility Criteria for Vendors

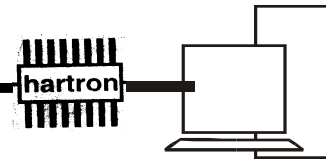
#### 3.1 Eligible Bidders

- 3.1.1 This invitation for bids is open to all bidders from India only.
- 3.1.2 The bidder must be in business from last five years.
- 3.1.3 The Bidder must be financially sound, a profitable entity during last three years and must have minimum cumulative turnover of Rs. 50 Cr. from during last 3 years.
- 3.1.4 The Bidder should be authorized business partner of OEM for both active & passive components.
- 3.1.5 The Bidders/OEM should have their own after sales support facilities at Chandigarh. The support facilities should be fully owned by the Bidders/OEM and managed by their permanent (Company Payroll) Employees and not through franchisee(s).
- 3.1.6 The Bidder must be a company registered under the Indian Companies Act, 1956.
- 3.1.7 The Bidder must have ISO 9001:2008 Certification.
- 3.1.8 The bidder must have a valid PAN No. & TIN No.
- 3.1.9 Bidders must have executed during last 5 years at least three (3) orders of networking projects having minimum value of Rs. 50 lacs (Documentary proof with installation & acceptance of the same should be attached with offer).

#### 3.2. Eligible equipment and Services

- 3.2.1 All the active equipment should be of the same make & all the passive equipment should also be of the same make & all equipment to be installed must be as per specifications. If Bidder does not manufacture the equipment, Bidders must submit proof of authorization from manufacturers. Manufacturer's test reports should also be supplied with all equipment. All accessories bundled by the manufacturer with the equipment should also accompany the equipment.
- 3.2.2 OEM should have ISO 27001 & 14001 Certification for active components & ISO 14001 certification for passive components. (Copies of the certificate shall be produced along with pre qualification bid)
- 3.2.3 OEM should have support center in India & should provide toll free number for support.
- 3.2.4 The NIC/SIT/HARTRON will accept only new equipment, used and/or re-manufactured equipment will not be accepted.

Note - Documentary Proof should be attached with the offer wherever required. The vendor should be in a position to produce the original document(s) for verification, if needed.



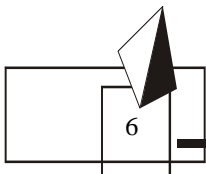
## SECTION – IV CONDITION OF CONTRACT

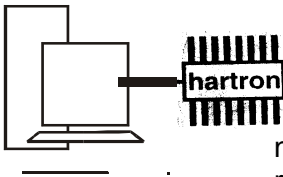
- 4.1 This contract is to last for execution of this project on turnkey basis but in the event of any breach of the agreement at any time on the part of the contractor; the contract may be terminated summarily by the Managing Director, HARTRON without compensation to the contractor.

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 the contract.

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.

- 4.2 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 list accompanying with the 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.
- 4.3 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.
- 4.4 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 & Installed at destination within 8 weeks from the date of approval of cable diagram.
- 4.5 Condition as to time for performance whether laid down herein or in any indent shall be always regarded as the essence of the contract.
- 4.6 a) The Managing Director, HARTRON or any of the experts or the Indenting Officers or any other officer or person duly authorized in writing by Managing Director, HARTRON shall have the power to inspect the stores, before, during or after manufacturers, collection dispatch, transit or arrival 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 be will at contractor's risk and Hartron may charge the contractor rent for the space occupied by such rejected goods.

- b) Final inspection of stores, already inspected may be carried out at the discretion of the Managing Director, HARTRON, by such officer as may be authorized by him. The provisions of conditions will apply to the final Inspection also.

4.7 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 attendants 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 in this behalf from 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.

4.8 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.

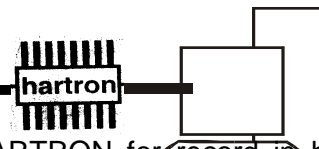
4.9 Unless otherwise specified in a requisition, bills for the whole goods referred to in each indent, in triplicate, will be prepared and submitted by contractor to the Managing Director, HARTRON. The full amount will be paid on receipt of stores in good condition after their verification as regards specifications, etc.

4.10 IN CASE OF DIRECT PAYMENT TO CONTRACTOR

If the payment of any bill be not made within three months from the date of its submission, the indenter to whom the bill was forwarded should be addressed first. Failing satisfaction, 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,

4.11 With every dispatch of goods or materials under the contract, invoices in triplicate will be prepared by the contractor. Invoices in duplicate 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.

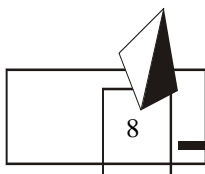
Subject to these conditions, the contractor will not be entitled to charge or be paid for supplies broken, lost or damaged in transit. The Managing Director, HARTRON will be the authority to determine whether or not the breakage, loss or damage was caused through the contractor's negligence and the decision 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.

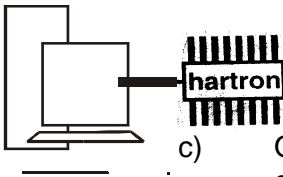
If during the currency of the contract, the specifications of any article or articles to be supplied thereunder be changed the contractor shall continue to comply with demands for the supply of the said article or articles in accordance with the new specifications at rate to be mutually agreed to in 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.

4.12 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. Purchaser 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.

4.13 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, the delayed consignment will be subject to 2% penalty per consignment per week recoverable on the value of the stores supplied. In case of non payment by the contractor, recovery will be made from his bills or amount of Earnest Money with the Managing Director, HARTRON provided that:

- a) No recovery of penalty will be made if the Managing Director, HARTRON accepts the delayed supplies by extending the delivery period upto 1 week by recording in writing that the exceptional circumstances were beyond the control of the supplier and there was no loss to Purchaser.
- b) Where the delay on the part of supplies is more than 2 weeks, the matter of extension of delivery period will be referred by the Indenting Officer to the Managing Director, HARTRON with a certificate that there are genuine reasons for delay on the part of suppliers and that no loss will result to Govt. in case extension delivery period is allowed. The case will be decided on merits by the office of Managing Director, HARTRON. The extension will be allowed to the extent of purchasing power delegated to him and in cases above his competence, the extension will be allowed by Managing Director, HARTRON and Indenting Officer. In case the delivery period is extended, no penalty for supplies, made during the extended period be recovered from the supplier.





c) On the failure of the supplier to make supply within the extended period or otherwise and the receipt of such information in the office of Managing Director, HARTRON, risk purchase at the cost of suppliers will be made by the Managing Director, HARTRON within 6 months of the expiry of the stipulated delivery period 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.

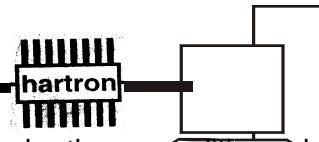
4.14 The contractor acknowledges that he has made himself fully acquainted with all the conditions and circumstances under which the supplies required under the contract will have to be made or furnished and with all the terms, clauses, conditions, specifications and other details of the contract and 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.

4.15 **No payment will be made in advance for any Supplies under this contract.**

4.16 i) The contractor shall not:

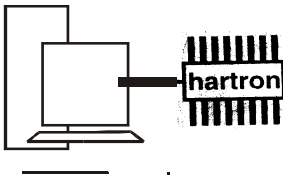
- a) Assign or sublet contract without written approval of the officer sanctioning the contract.
- b) Disposal details of the conditions governing this contract to unauthorized persons (intending against this contract is permissible only for the bonafide use of Government Departments and Quasi Public 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 fulfill 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.

- 4.17 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 of 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 IT / Punjab & Haryana High Court / State Judicial Academy and 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.
- 4.18 The Arbitrator and his subordinate staff shall be paid a fee of Rs.200/-per hearing subject to a maximum of Rs.1000/- 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 tenderer than entire amount shall be payable by the Managing Director, HARTRON 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."
- 4.19 i) **The minimum specifications of items should be as per Part – C.**  
ii) Deviation, if any may please be mentioned separately. If there is no deviation than it should be mentioned as "No Deviation".



## SECTION – V

### THE BID PROCESS

#### Preparation of Bids

##### 5.1. Pre Qualification, Technical and Commercial Bid

5.1.1 The bid for each part must be submitted in full i.e. all items specified in the requirements must be included. Incomplete bids will be summarily rejected.

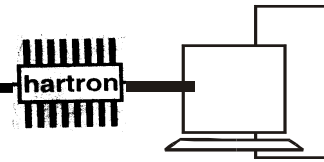
5.1.2 The bids are to be submitted in three parts:

- a) Pre Qualification Bid
- b) Technical Bid and
- c) Commercial Bid.

Each bid must be sealed in respective envelope.

5.1.3 The Pre Qualification, Technical bid prepared by bidder shall comprise the following components:

- a) A Bid Form as per respective Annexures completed in all accordance.
- b) Documentary evidence established in accordance with Clause 3.1.1 to 3.1.9 (Section – III) that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted. Bids from Agents without proper authorisation from the firms whom they are representing, shall be treated as non-responsive and will be rejected summarily.
- c) Bidder will provide documentation establishing bidders' capabilities and qualifications to satisfy purchaser that the Bidder will assume total responsibility for the fault free operation of network, cabling and maintenance for a period of 3 years. The documentary evidence of the goods' and services' conformity to the Bidding Documents may be in the form of Media (CD/DVD), literature, drawings and data, and shall furnish:
  - A detailed description of the goods' essential technical and performance characteristics:
  - A list giving full particulars, including availability of all spare parts etc. necessary for the proper and continued functioning of the goods for a period of 3 years, following commencement of the goods usage by the Purchaser and
  - An item by item commentary on the Purchaser's Technical Specifications demonstrating the substantial responsiveness of the Goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications
- d) The Bidder may substitute alternative standards in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutes are substantially equivalent or superior to those designated in the Technical Specifications. The Purchaser's decision in this regard shall be final.



## 5.2. Bid Form

5.2.1 The Bidder shall complete the Bid Form separately for Per Qualification Bid, Technical and Commercial bids. The deliverables not mentioned in Schedule of Requirement but essential for the successful implementation of the project may be indicated separately.

## 5.3. Commercial Bid

5.3.1. The commercial bid shall indicate the unit prices inclusive of all taxes & duties (wherever applicable) and total Bid Prices of the deliverables it proposes to deliver under the contract. All prices must be quoted in Indian rupees only.

5.3.2. Prices for upgrades, Subassemblies, Accessories should also be suitably quoted wherever necessary.

5.3.3. Price indicated on the Price Schedule shall be inclusive of all taxes, duties and charges with FOR destination.

5.3.4. Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and will be rejected.

5.3.5. All prices and other information like discounts (on volumes or otherwise) etc. having a bearing on the price shall be written both in figures and words in the prescribed offer form. If there is discrepancy between the price / information quoted in words and figures, the price/information quoted in words will be treated as final.

## 5.4. Bid Security

5.4.1. The bidder shall furnish, as part of its bid, bid security (EMD) of **Rs. 5.00 lacs**.

5.4.2. The bid security shall be in the form of a banker's cheque or Demand Draft payable to "Haryana State Electronics Development Corporation Limited at Chandigarh".

5.4.3. Unsuccessful Bidder's bid security will be discharged / returned as promptly as possible but not later than 30 days after the expiry of the period of bid validity prescribed by the purchaser.

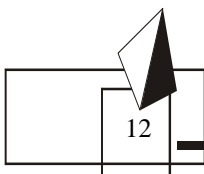
5.4.4. The successful Bidder's bid security (EMD) will be discharged after final acceptance of network and the bidder shall furnish the performance security.

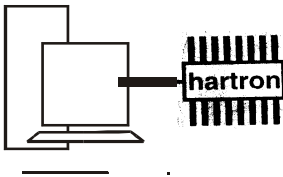
5.4.5. The bid security may be forfeited:

a) If a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid form; or

b) In case of a successful Bidder, if the Bidder fails

- i) Accept the order in all accordance or
- ii) To furnish performance security





## 5.5. Period of Validity of Bids

- 5.5.1. Bids shall remain valid for the minimum period of 90 days after the date of opening bid prescribed by the Purchaser. The Purchaser as non-responsive shall reject a bid valid for a short period.
- 5.5.2. In exceptional circumstances, the Purchaser may solicit the Bidder's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing or by fax. The bid security provided under Clause 5.4 shall also be suitably extended. A Bidder may refuse the request without becoming liable for forfeiture of its bid security. A Bidder granting the request will not be required nor permitted to modify its bid.

## 5.6. Format

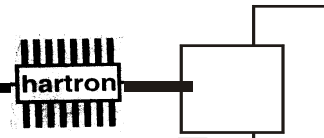
- 5.6.1. All pages of the bids should be numbered and duly signed by the bidder in indelible ink.
- 5.6.2. The bids must be neatly typewritten or written in indelible ink.
- 5.6.3. Any interlineations, erasures or overwriting shall be valid only if the person or persons signing the bid initial them with date.

## 5.7. Sealing and Marking of Bids

- 5.7.1. The bids shall be submitted in two separate sealed covers, which shall be super scribed "Hartron-Tender Number - Bid for Tender – (Mention the Tender Number No.)-Technical Bid". The second cover shall be super scribed, " Hartron-Tender Number - Bid for Tender – (Mention the Tender Number No.) - Commercial Bid."
- 5.7.2. The inner and outer envelopes shall be:
- A) Addressed to the a Purchaser at the address given in the Section-I; and
  - B) Bear "Bid Document no. Hartron/MSG/----" as title and a statement; "DO NOT OPEN BEFORE", to be completed with the time and the date specified in Section-I.
- 5.7.3. The inner envelope shall indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".
- 5.7.4. If the outer envelope is not sealed, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.
- 5.7.5. Telex, Cable or Facsimile bids will be rejected.

## 5.8. Deadline for Submission of Bids & Late Bids

- 5.8.1. Bids must be received by the Purchaser at the address specified in Section-I, not later than the time and date specified in Section-I. In the event of the specified date



for the submission of bids, being declared a holiday for the Purchaser, the bids will be received up to the appointed time on the next working day.

5.8.2. The Purchaser may, at its discretion, extend this deadline for submission of bids by amending the Bid Documents, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

5.8.3. Any bid received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser will be rejected and/or returned unopened to the Bidder.

### **5.9. Modification of Bids**

5.9.1. The Bidder may modify its bid after the bid's submission, provided that written notice of the modification including substitution of the bids is received by the Purchaser prior to the deadline prescribed for submission of bids.

5.9.2. No bid may be modified subsequent to the deadline for submission of bids.

### **5.10. Opening of Per Qualification Bids, Technical Bids by Purchaser**

5.10.1. The Purchaser will open all technical bids in the first instance in the presence of bidders' representatives who choose to attend, at the time, on the date and at the place specified in Section-I. The bidders' representatives present there, shall sign a register evidencing their attendance. In the event of the specified date of the bid opening being declared a holiday for the Purchaser, the bids shall be opened at the appointed time and location on the next working day.

5.10.2. The bidders' name, bid modifications and the presence or absence of requisite bid security and such other details as the Purchaser, at its discretion, may consider appropriate, will be announced at the opening. NO bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the Bidder.

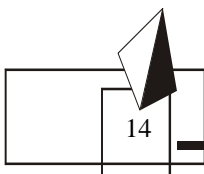
5.10.3. Bids (and modifications sent pursuant to Clause 5.9) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances. Withdrawn bids will be returned unopened to the bidders after approval of purchase committee.

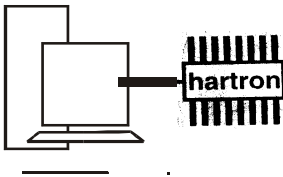
### **5.11. Clarification of Bids**

5.11.1. During evaluation of the bids, the Purchaser may at its discretion, ask the Bidder for clarification of its bid. The request for clarification and the response shall be in writing and no change in price or substance of the bid shall be sought, offered or permitted.

5.11.2. No Bidder shall contact the Purchaser on any matter relating to its bid; from the time of the bid opening to the time the contract is awarded. If the Bidder wishes to bring additional information to the notice of the Purchaser, it should be done in writing.

5.11.3. Any effort by a Bidder to influence the Purchase in its decisions on bid evaluation, bid comparison or contract award decisions may result in rejection of the Bidder's bid.





## 5.12. Evaluation of Per Qualification Bids, Technical Bid

5.12.1. Prior to the detailed technical evaluation, the Purchaser will determine the substantial responsiveness of each bid to the Bidding Documents. For purpose of these Clauses, a substantially responsive bid is one that conforms to all the terms and conditions of the Bidding Documents without material deviations. Deviations from or objections or reservations to critical provisions such as those concerning Bid Security (Clause 5.4) will be deemed to be a material deviation. The Purchaser's determination of a Bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

5.12.2. A bid determined as not substantially responsive will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

5.12.3. The Purchaser's evaluation of a technical bid will take into account one or more of the following factors:

- a) Deviations/superiority in technical specification of supplied equipment as detailed in Technical specification.
- b) Market standing and acceptability of items offered
- c) Delivery, installation, testing, commissioning and training schedule offered in the bid.
- d) The availability of after-sales support services for the goods/ equipment offered in the bid at the time of bid submission;
- e) The Annual Maintenance for the period of 5 years after completion of warranty period i.e. 3 years;
- f) Other specified criteria indicated in the Technical Specification;
- g) Financial strength and market standing of the bidder;
- h) Bidding others qualification of the bidder;

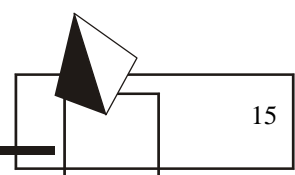
5.12.4. The bidders short-listed by the purchaser based on evaluation of their per qualification bids, technical bids may be called for detailed discussions including presentation of their Networking solution to a team selected by the purchaser for the purpose, at a specified date, time and venue, if needed.

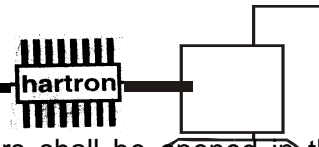
## 5.13. Revised Commercial Bids

5.13.1. If the Purchaser considers necessary, it may ask for revised commercial bids from the technically qualified bidders. The revised bids in sealed envelopes shall be submitted within a specified time of intimation to this effect. The revised bids shall not be for amounts more than the one quoted earlier for an item by the respective bidder, unless the specifications are for higher configuration. Any bidder quoting higher rates in their revised commercial bid for the same item quoted earlier shall be disqualified for further consideration and the bid security may be forfeited.

## 5.14. Opening of Commercial Bids

5.14.1. The purchaser will open the Commercial bids of only those bidders, which have been found to be technically qualified to undertake the job.





5.14.2. The Commercial Bids of the technically qualified bidders shall be opened in the presence of their representatives, who choose to be present, on a specified date and time and Venue at their own cost.

### 5.15. Evaluation and Comparison of Bids

5.15.1. The comparison shall be of all-inclusive price of the goods, such price to include all costs as well as freight, duties and taxes paid or payable.

5.15.2. Arithmetical errors will be rectified on the following basis: If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of errors, its bid will be rejected, and its bid security may be forfeited. If there is a discrepancy between words and figures, the amount in words will prevail.

### Award of Contract

#### 5.16. Award Criteria

5.16.1. The Purchaser will award the Contract to the successful Bidder whose bid has been determined to be substantially responsive and has been determined as the best evaluated bid provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

#### 5.17. Purchaser's right to vary Quantities at Time of Award

5.17.1. The Purchaser reserves the right at the time of contract award to increase or decrease the **quantity of goods (active & passive components as per site requirement)** and services originally specified in the schedule of requirement, pursuant to clause **Part –C**, without any change in unit price or other terms and conditions. Purchaser may also decide not to buy a good or service or part of it at all.

#### 5.18. Purchaser's Right to Accept Any Bid and to Reject Any or All Bids

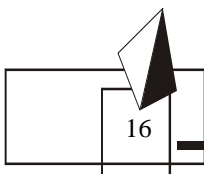
5.18.1. The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the grounds for the Purchaser's action.

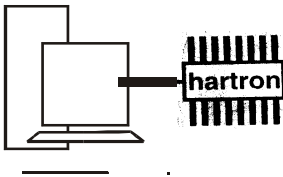
#### 5.19. Notification of Award

5.19.1. Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Bidder in writing by registered letter or by fax to be confirmed in writing by registered or hand delivered letter, that its bid has been accepted.

5.19.2. The notification of award will constitute the formation of the Contract.

5.19.3. Upon the successful Bidder's furnishing of performance security, the Purchaser will promptly notify each unsuccessful Bidder and will discharge its bid security.





## 5.20. Signing of Contract

- 5.20.1. At the same time as the purchaser notifies the successful Bidder that its bid has been accepted, the Purchaser will send the Bidder the Contract agreement of the Bidding Documents, incorporating all agreements between the parties.
- 5.20.2. Within four days of receipt of the Contract Form, the successful Bidder shall sign and date the Contract and return it to the Purchaser.

## 5.21. Performance Security

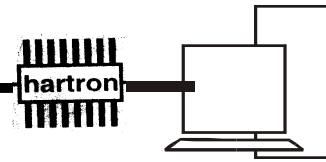
- 5.21.1. Within 7 days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the performance security in accordance with the conditions of Contract, in the Performance Security Form by the purchaser or another form acceptable to the Purchaser.
- 5.21.2. Failure of the successful Bidder to comply with the requirement of Clause 5.19 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the Purchaser may make the award to the next evaluated bidder or call for new bids.

## 5.22. Corrupt or Fraudulent Practices

- 5.22.1. Bidders & Suppliers shall observe the highest standard of ethics during the procurement and execution of the contract.
- 5.22.2. The Purchaser will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- 5.22.3. The purchaser will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for this bid, or in executing the contract.

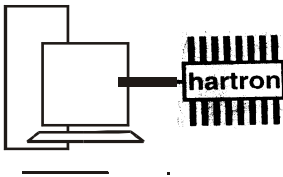
## 5.23. Miscellaneous

- 5.23.1. It will be imperative on each bidder to fully acquaint itself of all the local conditions and factors that would have effect on the performance of the work and its cost.
- 5.23.2. In the event, the bidder's company or concerned division of the company is taken over/bought over by another company, all the obligations under the agreement with the Purchaser shall be passed on to the new company/division for compliance by the new company.
- 5.23.3. During the validity of this bid or during the extended period, if any, if the bidder sells any system or sub-system of the same or equivalent configuration to any other Department/Organisation in India at a price lower than the price fixed for the Purchaser, the bidder shall automatically pass on the benefits to the Purchaser.



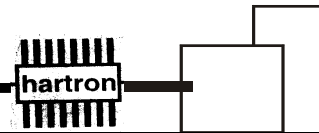
## 5.24. Discount

5.24.1 The Tenderers are advised not to indicate any separate discount. Discount, if any, should be merged with the quoted prices. Discount of any type, indicated separately, will not be taken into account for evaluation purpose. However, in the event of such an offer, without considering discount, is found to be the lowest, the Purchaser shall avail such discount at the time of award of contract.

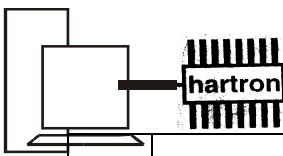


**PART – B**  
**DETAILED TERMS & CONDITIONS**  
(In Continue to Part – A)

1.	<b>Offer Acceptance</b>	Offers are to be submitted along with tender form. Offers received without tender form may be ignored.
2.	<b>Format</b>	Any tender, which is not on the proper tender form and received late, may not be considered.
3.	<b>Contract</b>	The conditions of contract attached to the tender form are returned duly signed along with the schedule and in case of non compliance the tender may be ignored.
4.	<b>Specification Conformity</b>	Tenders which are not strictly according to the specifications laid down in the schedule will not be considered. Unless a deviation from the specification / delivery period given in schedule is pointed out by the tenderers specifically, it will be presumed that offer conforms to the specifications, delivery period as laid down in the schedule
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 schedule (DNIT).
8.	<b>Writing</b>	The offers should be typed or written in ink. Offers in pencil may be ignored.
9.	<b>Certification</b>	The bidding firm having ISO 9001:2008 Certification and any other certification should furnish these certificates along with ISO 27001 and ISO 14001 certificates (as the case may be) of OEM.  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 empanelment 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/authorized 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 authorized person. His name, designation and address should be given in capital letters. Please also indicate the name, designation of the person who signs the schedule and who shall have further correspondence in this case.
13.	<b>Quantity</b>	This office reserves the rights to increase or decrease the quantity at any stage.
14.	<b>Inspection</b>	The inspection of the stores will be carried out at destination or otherwise specified at <b>Part – C (Specifications)</b>

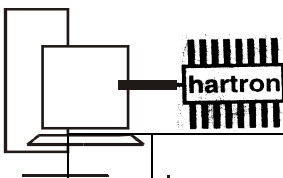


15.	<b>Partnership</b>	The tenderers must attach with their offers the partnership deed or constitution of the firm indicating the name of the proprietor.
16.	<b>Agreement</b>	The successful tenderers are required to send the agreement in duplicate as the condition of the contract, tenders for accepted 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 by this office and second copy will be retained in this office for record.
17.	<b>Authorization</b>	Only manufacturers of their distributors/agents/stockiest/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 this Directorate, Offers other then 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.
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/ or any other organisation 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 DNIT should be inclusive of current excise duty, freights, insurance, sales tax etc., failing which the offer may be ignored. However octroi 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 90 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>Negotiation Rights</b>	HARTRON reserves the right to call all or selected parties for negotiations.
24.	<b>Bindings</b>	The Managing Director, HARTRON does not bind himself to accept the lowest tender and reserve to himself the right to reject any or all tenders without assigning any reasons.
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/ or 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

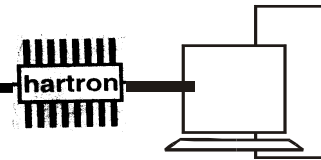


		have to be refunded to HARTRON.
27.	<b>Payment Terms</b>	<b>Unless otherwise specified 30% of payment will be released after delivery of ordered material, 50% will be released after installation of material and submission of Final Acceptance Certificate issued by NIC/SIT &amp; submission of 20 years OEM certification for cabling and passive components along with submission of 20% Bank Guarantee which will be released after expiry of warranty period. The Bank Guarantee should be valid up to one month more from the date of expiry of warranty period. The balance 20% payment will be released @ 10% each for satisfactory service support through onsite engineer on completion of 1<sup>st</sup> and 2<sup>nd</sup> second year of warranty after final acceptance.</b>
28.	<b>Delivery &amp; Installation Period</b>	<b>Unless otherwise specified the delivery of material is within 6 weeks from the date of issue of purchase order &amp; Installation is within 10 weeks from the approval of final cable diagram. Delivery period of more than 6 weeks &amp; Installation of more than 10 weeks will not be accepted from the approval of cable diagram. However preference may be given to supplier who will quote lesser delivery period.</b>
29.	<b>Warranty Period</b>	<b>Unless otherwise specified the warranty of complete equipments should be 3 years from the date of Final Acceptance.</b> Warranty will cover repair/replacement of all defective parts, if any, with the same or equivalent make for any part removed. 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 of installation. <b>The supplier will attend the complaint within 4 hours and not beyond 8 working hours (one working day).</b>
30.	<b>Acceptance Test</b>	All test reports should be verified & accepted by NIC. Final acceptance certificate is to be issued by NIC / SIT after trouble free operations from 30 days of installation and on successful commissioning of project
31	<b>Security money</b>	Security Money / Bank Guarantee of 20% of total components value will be deposited by the vendor valid for 37 months from the date of acceptance.
32.	<b>Responsibilities</b>	It shall be the responsibility of the vendor to keep the equipment in good working condition so as to ensure a minimum of 95% uptime on monthly basis by carrying out the necessary repairs/maintenance of equipment, 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. The vendor shall provide free replacement of equivalent part as and when required.  <b>The bidder will complete the service call within one working day otherwise penalty shall be levied @2% per working day for total down network (e.g. problem with core switch etc.), 1.0% per working day per switch for partially down network (e.g. Problem with distribution switches or backbone etc.), 0.5 % per day per switch for other problem (related to edge switches, backbone etc.) and 0.1 % per day per node in case of problem with one or more nodes of the annual warranty amount (failures beyond 95% up time condition will result in doubling of penalty rates, overall uptime less than 90% will result in enhance penalty and forfeiture of Bank guarantee if so desired by the buyer. The annual</b>

		warranty amount shall be deemed to be @ 10% of the project cost. The same terms also applicable during AMC Period. Absence of and failure (to solve network related problem) by on site engineer for more then 3 consecutive days without replacement will attract penalty @ 1% of annual warranty amount for per day of unauthorized absence or delay.
33.	<b>Installation</b>	The supplier shall furnish complete, well-fabricated and reliably operating and secure centralized systems as described in this document. Design and selection of equipment and Network Management Software shall be consistent with the requirements of long-term trouble free operation with highest degree of reliability and maintainability. All equipment shall be constructed to operate safely without undue heating, vibration, wear, corrosion, electromagnetic interference or similar problems and all software shall be proven, tested and reliable.
34.	<b>Training</b>	The vendor shall provide operational training on the equipment and other related accessories supplied along with.
35.	<b>Documentation</b>	The awarded bidder will provide up-to-date industry standard system and user documentation with each component or module before acceptance testing commences. Bidder will furnish to the NIC / SIT Haryana, prior to the final testing or the acceptance of the components, whichever is an earlier, complete instruction manual. Such manuals will include the latest revisions to the Component and software and any changes that have occurred during the installation and testing. Documentation will be provided using both paper and electronic media. Documentation of equipment must be provided along with the technical literature and service manual showing description of the circuitry of the test instrument. The documents supplied must be neat, concise and readable.  <b>The Successful bidder shall document all the installation and commissioning procedures and provide the same to the SIT / NIC / HARTRON within one week of the commissioning of Project. The Successful bidder shall submit a complete cabling system layout (as installed), including cable routing fiber &amp; copper, communication outlet/ connector designations. The layout shall detail locations of all equipment and indicate all wiring pathways.</b>
36.	<b>Annual Maintenance Contract</b>	AMC @ ___% of the net equipment price will be <b>optional</b> at the discretion of <b>SIT</b> and would become applicable after expiry of warranty period and would remain unchanged for the <b>next 5 years</b> after the expiry of warranty period.  (The same should be quoted by bidder in commercial bid).
37.	<b>Billing</b>	The bill shall be raised in the name of the <b>Society for IT Initiative Fund for e-Governance</b> , which will be mentioned in the order, and the payment shall be released by Hartron after the verification of the materials & submission of required documents.
38.	<b>Arbitration Clause</b>	In the eventuality of any dispute, the sole Arbitrator shall be The Punjab & Haryana High Court / Society of IT Initiative Fund for e-Governance / Managing Director, HARTRON 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 equipment shall be upgraded to the latest version or some additional equipment at their negotiated prices (if any).
40.	<b>Changes of components</b>	HARTRON reserves the right to increase or decrease quantity of goods (active & passive), subject to the final requirement at the time of placement of order or as per site requirement without any change in unit price or others terms & conditions.
41.	<b>Repair/ Maintenance</b>	The bidder should be able to undertake repair/maintenance of the equipment for the period of 3 years (during warranty) & 5 years (during AMC) as & when required by the user department.
42.	<b>Technical Assistant</b>	The bidder shall post 4 nos. well qualified & experienced service engineer full time (Monday to Saturday from 8 am to 6 pm) at the sites for the period of 2 years during the warranty period from the date of Final Acceptance. The Engineer is on the roll of the company. The details of the engineer should be submitted with acceptance report.
43.	<b>Service Information Cards</b>	Service Information Cards with details (Address of Service Center with nearest place to installation, phone no., engineer name etc.) be provided along with equipments
44.	<b>New/Uniform Hardware</b>	The NIC/SIT/Hartron will accept only new equipment, used and/or re-manufactured equipment will not be accepted
45.	<b>Implementation Services</b>	The awarded bidder will deliver comprehensive management and technical services associated with the implementation of the system, including: <ul style="list-style-type: none"> <li>• Project Management</li> <li>• Network Design, Implementation, Delivery, Installation, Acceptance, Testing and Migration of Services which includes – <ol style="list-style-type: none"> <li>i. Creation and Management of VLANs, User Rights, Users Permissions, Network Securities &amp; Policies</li> <li>ii. Management of all others services like network printer etc.</li> <li>iii. NIC NET &amp; SWAN (ADHAAR) Applications &amp; Services</li> </ol> </li> <li>• Training</li> <li>• Operations Support, service and Maintenance</li> </ul>
46.	<b>Bid Price</b>	The bidders would have to quote the prices in Indian Rupees only for the total scope of work. Prices quoted must be firm is final price and shall remain constant throughout the period of the contract and shall not be subject to any upward modifications, whatsoever
47.	<b>OEM Service Support</b>	The bidders have to submit OEM support certificate for the next 3 years with technical bid. List of OEM support centres in India along with address should also be submitted.



## PART – C

### TECHNICAL SPECIFICATIONS, SYSTEM REQUIREMENTS & SCOPE OF WORK LAN EQUIPMENT & CABLING

#### 1. Objective

Objective of up-gradation of **Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN** is to connect the all floors with **10G fiber backbone** in such a way that the upgraded network reuses most of existing LAN infrastructure while maintaining perfect inter-operability with existing NICNET & Haryana SWAN (ADHAR).

It should be designed in the way that it works with existing NICNET, Haryana SWAN routers, switches, CISCO IP phones (All these are the different models of CISCO) & Video Conferencing equipments (POLYCOM and other makes).

#### 2. Overall Architecture

Three-Tier Architecture

1. Core (10G)
2. Distribution (10G uplink, 1G Distribution)
3. Edge (1G Uplink, 100 Mbps Distribution)

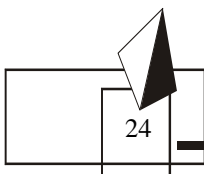
Core → Distribution → Edge

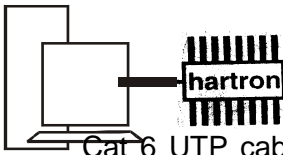
It (Upgraded Network) should be a three tier network with 1 Core switch, multiple Distribution switches and multiple Edge switches (depending upon actual number of nodes) on each floor.

Core Switch will connect to all distribution switches on a 10Gbps fiber backbone. Distribution switches will connect to Edge Gigabit switches at 1 Gbps each on UTP/Fiber cable (as per actual site requirement & distance). Edge switchers will provide at 1 Gbps/ 100 Mbps connectivity to each node on UTP cable. NMS provided with core switch should discover all LAN switches up to port level and provide complete monitoring & manageability from Network Control Centre. For all edge switches **double uplink** on **UTP Cat 6A** is to be provided. All the switches shall be of the same make & work with existing NICNET & Haryana SWAN devices & applications.

#### 3. Proposed Connectivity Solution

The Core switch will be placed in Network control centre. Core Switch will connect to all distribution switches on a 10Gbps fiber backbone. There will be one or more distribution switches on each floor. Distribution switches will connect to Edge Gigabit switches at 1 Gbps each on UTP/Fiber cable (as per actual site requirement & distance). Edge switchers will provide at least 100 Mbps connectivity to each node on UTP cable. NMS provided with core switch will discover all LAN switches up to port level and provide complete monitoring & manageability from Network Control Centre. For all edge switches **double uplink** on **Cat 6A UTP** is to be provided.





Cat 6 UTP cable will be laid down on all floors. Individual PCs on every floor of above-mentioned site shall be linked from **layer-2 switches by a Cat 6 Cable** to facilitate 100Mbps/Gigabit Connectivity.

As per site requirement, Single/Dual Port Information Outlet is installed in each room.

The passive components (Patch Panel, Racks, Patch Cord, Cable, Conduit, Channel, Cable Tray etc.) of network will be used as per site requirement.

Bundled or standard NMS (Network Management Software) is also to be provided for operational & management of network devices under a single roof with core switch from the same OEM. The same is to work with any standard platform like windows, Linux etc.

Details of Building, Number of Nodes required (in new network), Number of nodes currently working and Network Control centre are as follows:

**a. Haryana Civil Secretariat –**

Haryana Civil Secretariat comprise of 9 floors

Approximate **1500 nodes** LAN is required in Haryana Civil Secretariat covering all floors. However the number may change depending on actual requirement. LAN design should provide active & passive components for additional requirements as per site requirement.

A LAN of approximately 500 nodes is currently functional in Haryana Civil Secretariat. This LAN is to be integrated in new design and its reusable components (I/O, Switches, Backbone fiber and UTP cables etc.) have to be preserved and reused in new design.

**Network Control Centre** shall be located at Ninth Floor in NIC. Central Core switch will be placed in Network Control Center.

**b. New Civil Secretariat Haryana –**

New Civil Secretariat Haryana comprise of 6 floors

Approximate **500 nodes** LAN is required in New Civil Secretariat Haryana covering all floors. However the number may change depending on actual requirement. LAN design should provide active & passive components for additional requirements as per site requirement.

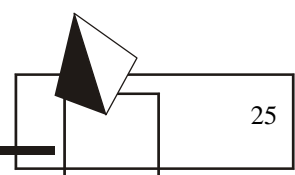
A LAN of approximately 300 nodes is currently functional in Haryana Civil Secretariat. This LAN is to be integrated in new design and its reusable components (I/O, Switches, Backbone fiber and UTP cables etc.) have to be preserved and reused in new design.

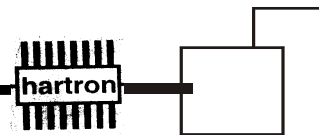
**Network Control Centre** shall be located at Ground Floor in NIC.

**c. 30 Bays Building –**

30 Bays Building comprise of 4 floors.

Approximate **950 nodes** LAN is required in 30 Bays Building covering all floors. However the number may change depending on actual requirement. LAN design should provide active & passive components for additional requirements as per site requirement.





A LAN of approximately 500 nodes is currently functional in Haryana Civil Secretariat. This LAN is to be integrated in new design and its reusable components (I/O, Switches, Backbone fiber and UTP cables etc.) have to be preserved and reused in new design.

**Network Control Centre** shall be located at Second Floor in NIC.

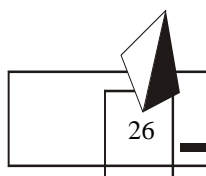
#### 4. Intranet Scope

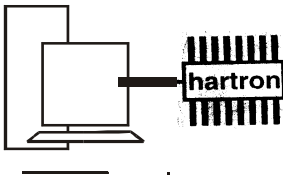
A. The successful bidder will be required to supply, install and configure the equipment for Intranet with necessary switches, data communications cables, connectors etc. which include laying conduits, channels, cables, fixing of information outlets, configuration of NMS and switches

B. The specifications of the work involved are as below:

Supply, Install and configure networking solution to provide the following functionality:

- The bidder will be required to identify and secure the reusable components like Switches, Cables, I/O with or without SMB, Patch Panel, Patch Cords, Racks etc.) & reuse them in new network.
- Identification of location for placement of distribution & edge switches for new design
- Preparation of Detailed Network Plan & its approval from NIC.
- Extension of UPS power to all switches in the new network.
- Supply, install & commission all the network components supplied. It includes rack mounting, configuration and physical connectivity of switches etc. for central manageability through Network Management Software (NMS). **The arrangements of switches are to be finalised in consultation with Nodal Officer/Project Coordinator of NIC or officials appointed by NIC.**
- Scope of cabling will include supply, laying, conducting, termination and rack mounting of components wherever applicable.
- Data communication / interlinking of nodes and cabling shall conform to EIA /TIA standards. The adaptation of standard is very essential to certify the cabling guarantee life of longer duration i. e. 20 years. The supplier will be required to submit certificate for the network installation on completion of the networking. The medium of cabling would be **CAT 6** between switches and nodes; **CAT 6 enhanced cables (CAT 6A) / Fiber** between switches to support high-speed data transmission and also for future applications such as IP Camera and large data bases through LAN / WAN.
- The bidder will configure all LAN switches for central manageability up to port level from Network Control Centre through supplied NMS with core switch from the same OEM.
- The bidder will provide **two years** onsite support for operation & maintenance of LAN (including switches & cable system) by posting minimum 4 qualified **Network Engineer 1 each for 30 Bays Building and New Haryana Secretariat and 2 for Haryana Civil Secretariat with following qualifications**
  - Diploma in IT/CS/Electronics/Electronics & Communication with OEM Certification and minimum 3 years experience of LAN Management **or**
  - B.E./B.Tech. in IT/CS/Electronics/Electronics & Communication with OEM Certification and minimum 1 year experience of LAN Management

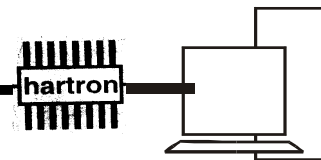




They shall work under the supervision of NIC / SIT as per NIC norms, terms & conditions & allotted time frame (8.00 AM to 6.00 PM, 6 days a week). Balance 20% payment will be release on the performance of network engineer.

## 5. Steps to make new network at all the 3 sites

1. The bidder / supplier will identify the reusable cables and others LAN components like I/O, Patch Panel, Patch Cord, and Rack & Switches in the existing network.
2. **Existing network will not be disturbed till new network is in place.**
3. Core Switch will be placed in Network Control Center which is to be in NIC Computer Center
4. Identify locations of Distribution & Edge Switch.
5. Prepare Detailed Network Layout plan in form of rack wise cable diagrams and switch port wise excel sheets and get the same approved from NIC
6. Prepare UPS Power extensions plan for all distribution & edge switches and get the same approved from NIC
7. Execute cable laying and UPS power extension activity
8. Provide at least **2 UTP Cat 6A / Cat6 Plus backbone cable** from distribution switch to each edge switch
9. All Uplinks cables to be punched in **same / different patch panel with different color code.**
10. Carry out laying & termination of additional cable requirements in such a way that it does not disturb the existing LAN.
11. Install and configure all switches
12. Integrate reusable cables, switches & others components of existing network.
13. Transfer all nodes to new LAN.
14. Configure VLAN's for floor wise / department wise requirements.
15. **Assign IP addresses & user-ids as provided by NIC.** All users (nodes) shall access the network in a secured manner using assigned user-ids & passwords.
16. Remove extra cable, switches (managed & unmanaged) & other LAN components & submit all these to IT Department Haryana for emergency use.
17. Submit all switch configurations & cable testing reports to NIC/SIT.
18. Ensure trouble free operation of new LAN for minimum one month.



## 6. SYSTEM SPECIFICATIONS

### Supply, Installation, Testing and maintenance of LAN and LAN components

#### A Purpose

Local Area Network (LAN) is to be established at above mentioned 3 sites i.e. Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN. The LAN is to be made functional by integrating the equipment under scope of supply and the existing equipments such as Switches, Servers, Desktops/Nodes, IP Phones, Video Conferencing and Network Printers etc., which are already available or would be made available in the offices of above mentioned sites.

#### B The networking would comprise of the following items of the work

1. Design assistance
2. Supply of Active Components
3. Supply of Passive components
4. Preparation of network plan with rack wise node details (in form of excel tables) and cable layout diagrams.
5. Cable laying and testing of the laid cable
6. Installation, connectivity and testing of the LAN
7. Integration with already existing Server, Nodes, Power Supply & Peripherals.
8. NMS configuration for central monitoring and management.
9. Network audit
10. Posting of four network engineer for the period of two years from date of acceptance of operational network. 2 for Haryana Civil Secretariat, 1 for 30 Bays Building & 1 for New Secretariat Haryana.
11. Remove extra cable, switches & other LAN components

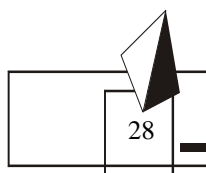
#### C Notes

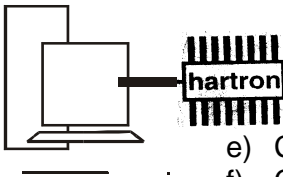
- ❖ All LAN switches should be of the same make / same OEM.
- ❖ All passive components should be from the same OEM
- ❖ All items to be used for the LAN should be compatible with each other including existing components, IP Phone, VC equipments and with the other standard equipment.
- ❖ Necessary Drivers and Software required to run the equipment should be supplied.
- ❖ Make and Model of the equipment offered shall be mentioned in the bid along with its parameters.
- ❖ The operating conditions for the equipment are a follows:

<b>Power</b>	<b>230V±10%,</b>
<b>50 Hz</b>	<b>±3%</b>
<b>Operating Temperature</b>	<b>0-45°C</b>
<b>Operating RH</b>	<b>20-90%</b>

#### D Following documents should be submitted by the supplier carrying LAN cabling and Integration work.

- b) Approved LAN design with rack or switch wise node details (in excel sheets) cabling diagram, cable identification, before commencing of actual cabling work
- c) Complete set of Technical/Operation and Maintenance Manual for active components and NMS
- d) An inventory of items delivered as per site requirement





- e) Comprehensive inventory including additional items
- f) Certification details of all active & passive network equipments.
- g) Laminated cable diagrams with cable identification no. should be pasted on the racks & copy of the same to be provided to Nodal Officer.
- h) Laminated Cable Identification no. for I/O, Department / Floor wise.
- i) Test reports for all cables
- j) 20 Years Certification from OEM authorized network integrator
- k) Completion certificate from Nodal Officer / Project Coordinator appointed by SIT / NIC.
- l) Final acceptance certificate from NIC after trouble free operations from 30 days of installation.
- m) 3 years on-site warranty of all switches, Patch Panel, Racks, I/O with SMB etc.

## 7. Installation, Termination and Testing

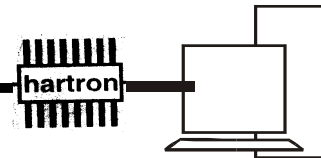
### A. Installation and Termination

- a) In-building UTP/ FIBER cable laying, cable route survey & detailed diagram of cable route map are indicating the lengths, termination of cables with connectors, labeling and marking as per approved labeling plan, crimping of RJ45 connectors, supply and fixing of industry standard PVC cable ducts.
- b) **Dual UTP CAT6A cables from Distribution switches to Edge switches.** Spare UTP cables to be terminated on same / extra patch panels with same / different color. Backbone switches with two patch panels shall be placed in 12U wall mount racks.
- c) Termination of cable on components likes Jack Panel and Information Outlet.
- d) Performance testing of the laid UTP/ FIBER cable as per EIA/TIA TSB-67, standard in particular wire map (Short, Open, Transpose, Reverse, Split), attenuation and Near end cross talk (NEXT).

### B. Integration and Testing:


After the individual testing of cabling components, integration of complete network is to be done followed by testing of working of the LAN. After testing of the LAN, certification of the structured cabling is to be done for 20 years warranty & should be submitted to NIC for verification.

- C. All test reports should be verified & accepted by NIC. Final Acceptance certificate should be issued by NIC / SIT after verification of test reports & trouble free operations for 30 days.
- D. Two years onsite support for operation & maintenance of LAN (including switches and cables system) will start after final acceptance.
- E. **Three years on-site warranty** will start after final acceptance from NIC / SIT.
- F. All LAN switches will be configured for central manageability up to port level from Network Control Centre through supplied Network Management Software from the same OEM.



## 8. Approximate Estimated Requirement

S#	Items	Quantity (Approximate)		
		Haryana Civil Secretariat	New Haryana Secretariat	30 Bays Building
1.	Core Switch with redundant power supply ( <b>specification – H</b> )	1	-	-
2.	Core Switch with redundant power supply ( <b>specification – I</b> )	-	1	1
3.	Distribution Switch without redundant power supply ( <b>Specification – J</b> )	10 nos. (One Switch on each floor & additional switch on 4 <sup>th</sup> , 5 <sup>th</sup> , 8 <sup>th</sup> & 9 <sup>th</sup> Floor)	3 nos. (One Switch for two floors each)	6 nos. (Two Switch on each floor)
4.	10G SFP Module for Core Switch	24	8	8
5.	10G SFP Module for Distribution Switch	10	3	6
6.	Network Management Software (Full / Professional / Enterprise Version)	1	1	1
7.	Edge Switches with redundant power supply ( <b>Specification – K and L</b> )	65 nos.	32 nos.	57 nos.
8.	Cisco 1000 Base-T GBIC module for 2950-24EI (to reuse existing Cisco 2950G switches in upgraded 10Gbps LAN) Number of edge switches will reduce accordingly.	24 nos.	0	0
9.	Multimode Fiber cable	2000 meters.	600 meters.	1200 meters.
10.	CAT 6 / Cat6a UTP Cable	50,000 Meters	25,000 Meters	50,000 Meters
11.	Patch Panels (24 ports)	75	38	69
12.	1 U fiber core terminating panel	10	10	10
13.	2 U fiber core terminating panel	1	1	1
14.	9U wall mount Racks	55	29	51
15.	12 U wall mount Racks	10	3	6
16.	Information outlets: (Existing Information outlets are to be used where ever possible)	200	300	500



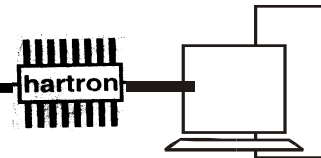
17.	CAT 6A UTP Patch Chords(3'/7')	330/200	370/300	620/500
18.	Fiber Patch Chords	25	8	15

**Quantity (Approximate) for Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN –**

1. Core Switch (as per specification H) – **One no. (for Haryana Civil Secretariat)**
2. Core Switch (as per specification I) – **Two nos. (for New Secretariat Haryana & 30 Bays Building)**
3. Distribution Switch (as per specification J) – **19 nos. (10+3+6)**
4. **10G Fiber Module for Core & Distribution Switch – 59 nos.**
5. Edge Switches (as per specification K & L) – **154 nos. (65+32+57)**
6. Cisco 1000 Base-T GBIC module for 2950-24EI - **24 nos.**  
(to reuse existing Cisco 2950G switches in upgraded 10Gbps LAN)
7. Patch Panel (Cat6a, 24 Ports) – **182 nos. (75+38+69)**
8. 9U wall mount racks – **135 nos. (55+29+51)**
9. 12U wall mount racks – **19 nos. (10+3+36)**
10. UTP Cat6/Cat 6a Cable – **125,000 meters (50000+25000+50000)**
11. UTP Cat6a 1 meter Patch Chord – **1320 nos. (330+370+620)**
12. UTP Cat6a 2 meter Patch Chord – **1000 nos. (200+300+500)**
13. Information Outlets (Cat6) – **1000 nos. (200+300+500)**
14. Multimode Fiber cable – **3800 meters (2000+600+1200)**
15. 19" rack mount terminating panel (1 RU height) with 6 SC couplers – **30 nos. (10+10+10)**
16. 19" rack mount terminating panel (2 RU heights) with 72 SC couplers – **3 no.**
17. Fiber Patch Cords – **48 nos. (25+8+15)**

**Note –**

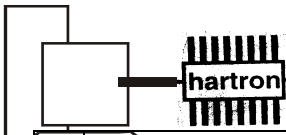
1. **No. of distribution switches, Edge switches, racks, patch panel, Patch Cord (3'/7'), UTP & Fiber Cable will reduce after identification of reusable components like switches, racks, patch panels, I/O, Patch Cord etc.). All the details of reusable components submitted to NIC.**
2. **All the active components like switches should be of the same make & support perfect inter-operability with existing NIC NET, Haryana SWAN (ADHAAR) router, switches, IP phones & video conferencing units. All these routers, switches & IP Phones used in NICNET & SWAN are different models of CISCO make.**
3. **All the passive components should be of the same make.**



## 9. APPROXIMATE REQUIREMENT WITH SPECIFICATIONS

To be filled by the Bidder

S#	Item Description	App. Qty.	Make	Model Series	Model No.	Part No.	Remarks
1	Full Layer 3 Core Switch as per Technical Specification <b>[CORE SWITCH as per Specification H]</b>	1					To be Installed in NIC
2	Full Layer 3 Core Switch as per Technical Specification <b>[CORE SWITCH as per Specification I]</b>	2					To be Installed in NIC
3	Full Layer 3 Distribution Switch as per Technical Specification <b>[DISTRIBUTION SWITCH as per Specification J ]</b>	19					To be installed in each floors
4	10G SFP Module for Core & Distribution Switches	59					For connectivity between Core & Distribution Switch installed in each floor
5	Full Layer 2 Edge Switch with minimum 24 nos. 10/100 Mbps full duplex copper ports with minimum 2 nos. 10/100/1000 Mbps inbuilt copper ports <b>[Edge Switch as per technical specification K]</b>	120					To be Installed in each block / department / division of each floor
6	Full Layer 2 Edge Switch with minimum 48 nos. 10/100 Mbps full duplex copper ports with minimum 2 nos. 10/100/1000 Mbps inbuilt copper ports <b>[Edge Switch as per technical specification L]</b>	10					To be Installed in each block / department / division of each floor
7	Full Layer 2 Edge Switch with minimum 24 nos. 10/100/1000 Mbps full duplex auto sensing inbuilt copper ports <b>[Edge Switch as per technical specification K with above mentioned ports &amp; speed]</b>	15					To be Installed in each block / department / division of each floor
8	1000 Base-T GBIC module for existing Cisco 2950-24EI Switches	24					To be Installed in each block / department / division of each floor
9	Network Management Software with Manual & Media	3					To be Installed in NIC for Centralized Control
10	24 Port Patch Panel with Cable Manager (Cat-6a)	182					To be Installed in each block / department / division of each floor
11	12U Wall Mount Rack Unit with accessories (Power Supply, Fans, Cable Trays etc.)	19					To be Installed in each block / department / division of each floor
12	9U Wall Mount Rack Unit with accessories (Power Supply, Fans, Cable Trays etc.)	135					To be Installed in each block / department / division of each floor
13	Information Outlet with SMB (Cat-6)	1000					To be Installed in each block / department / division of each floor



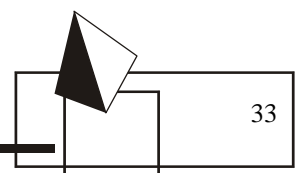
14	Patch Cord – 1 Meter (3 feet) Cat-6a	1320					To be Installed in each block / department / division of each floor
15	Patch Cord – 2 Meter (7 feet) Cat-6a	1000					To be Installed in each block / department / division of each floor
16	UTP Cable (Cat-6/ Cat -6a) Per Meter (163 Boxes Approximate)	125000					To be Installed in each block / department / division of each floor
17	MK Channel 100:50	100 Meters					(As per actual)
18	1." PVC Conduit / Channel / Cable Tray (ISI)	2000 Meters					(As per actual)
19	1.5 "PVC Conduit / Channel / Cable Tray (ISI)	1000 Meters					(As per actual)

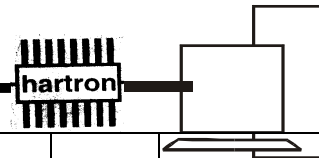
**Fiber Components for Backbone Connectivity**

1	50/125 (OM3) 6 Core Outdoor Multi Mode Optical Fiber Cable for 10G Support	3800					To connect all the floors (As per actual)
2	19" rack mount terminating panel (1 RU height) with 6 SC couplers. (LIU Rack mounted)	30					----
3	19" rack mount terminating panel (2 RU height) with 72 SC couplers (LIU Rack mounted)	3					----
4	Multi Mode Fiber Patch Cord for 10G (3 Meter)	48					----
5	Multi Mode Fiber SC Connector & Adopter for 10G	216					----

**Services**

1	Laying of UTP cables (per meter)	125000					
2	Laying of Channel, Conduit (Per meter)	3100					
3	Testing & Certification UTP cabling (per node)	1000					
4	Fixing of SMB and Termination of cables in I/O (per Node)	1000					
5	Rack Fixing per unit (per unit)	156					
6	Patch Panel Fixing per unit (Per unit)	182					
7	Lying of Optical Fiber Cable including fixing, trenching etc. (per meter)	3800					
8	Termination & connectorization of fiber cables (Per Connector)	216					
9	Testing & Certification Fiber (Per Connector)	216					
10	Digging & relieving of Hard Soil	Per Meter					
11	Digging & relieving of Soft Soil	Per Meter					





12	AMC for next 5 years after expiry of warranty period					
13	1 KVA Offline UPS System <b>[as per Specification N]</b>	19				For all distribution switch
14	Switch Boards with wiring (As Per Requirement)	19				From UPS to Switch on each floor
15	Network Engineer on site for the period of 2 years	4				To manage the network & rectify the daily routine query

## MINIMUM TECHNICAL SPECIFICATIONS OF NETWORKING ITEMS

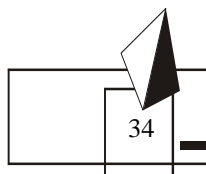
- a. All network UTP cable should be certified and tested to conform to **CAT 6 / 6A Gigabit performance** by UL and others equipments & accessories should be in accordance with latest applicable recommendations, regulations & standards of:
  - CCITT / ITU
  - IEC
  - IETF
  - International Electro-technical Commission (IEC)
  - UL/ETL Certified (**not listed only certified**)  
Listed & Verified
  - To conform to Gigabit performance (Documents attached with technical bid)
  - For parameters not covered under the above codes, internationally acceptable standards shall also be accepted.
- b. All fiber cable and components should be certified and tested to conform to 10 Gbps performance (IEEE 802.3ae standards). (Documents attached with technical bid)
- c. All passive components should be from the same manufacture.
- d. All switches (Core, Distribution & Edge) with NMS should be from the same OEM & support perfect inter-operability with existing **NICNET & Haryana SWAN (ADHAR) routers, switches, IP Phones & Video Conferencing equipment**. All these routers, switches & IP Phones used in NICNET & SWAN are different models of Cisco. Vendor shall be required to show or assure the inter operability during technical evaluation of bids.

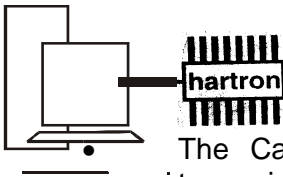
### A. UTP CAT 6 Cable

- Should confirm / comply or exceed the EIA/TIA 568A/B, EIA/TIA 5688 or ISO/IEC 11801 (Gigabit) standards for physical & Electrical specifications / standards
- 4 Pair **23 AWG** Copper Cable with integral cross member pair separator.
- The Cable should have 100ohm impedance for 100 meters length & data transmission frequencies upto 250 MHz
- ETL certified & UL@ Listed

### B. UTP CAT 6a Cable

- Should confirm / comply or exceed the EIA/TIA 568A/B2.10, EIA/TIA 5688 or ISO/IEC 11801 (10 Gigabit) standards for physical & Electrical specifications / standards
- 4 Pair **23 AWG** Copper Cable with integral cross member pair separator.





- The Cable should have 100ohm impedance for 100 meters length & data transmission frequencies upto 500 MHz
- ETL certified & UL@ Listed

**C. 24 / 48 Port Jack Panel with wire Manager**

- Should conform to CAT6a (EIA/TIA 568A/B2.10) specifications
- Should terminate 24 UTP CAT 6 (4 pair) Cables at 110 type wiring block at the rear end and RJ45 jack on the front panel.
- Ports should be with individual dust cover & individually replaceable.
- 19" rack mountable
- Should confirm to EIA/TIA 568A wiring Pattern
- Should have labeling strips for identification.
- Should have cable routing rings and ties both at the front and the rear side for cable support
- ETL certified & UL@ Listed

Wire Manager: -

- 19" rack mountable
- Height 1 U
- Should be able to route wire on both front as well as rear of the jack panel

**D. Information Outlet with Surface Mount Box**

- Should meet for exceed the EIA/TIA 568 A/B, EIA/TIA 5688 (Gigabit) standard
- Surface mount box with single RJ45 socket to terminate UTP CAT 6 Cable
- Gold plated contact surface
- Provision for dust cover for protection against dust
- Provisions for labeling icons and strips
- Provision for anchors for smooth cable entry.
- ETL certified & UL@ Listed
- the size of front plate should be 3 inch by 3 inch (3" X 3")

**E. Patch Cord 7'/3'**

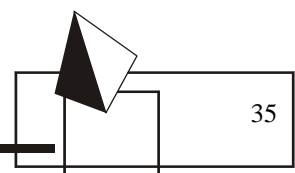
- Should confirm / comply or exceed the EIA/TIA 568A/B2.10, EIA/TIA 5688 and ISO/IEC 11801 (10 Gigabit) standards for physical & Electrical specifications / standards
- 4 Pair **26 AWG** Copper Cable with integral cross member pair separator.
- **Patch Cord with Metallic Screening with cable holders with locking mechanism**
- Cord in length on 7 feet/ 3 feet with factory mould RJ-45 plugs at both end
- ETL certified & UL@ Listed

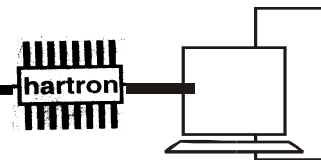
**F. Racks:**

19" wall mountable/ floor resting standard racks, 9U/12U/18U height with front glass door, closed on all sides, lock and key, **4 fans**, trays and **6 socket power supply strip** with spike buster etc.

**G. Fiber Components –**

- 10G fiber module for distance upto 300 meters.





- 50/125 (OM3) 6 Core outdoor Multimode Fiber Cable
- Fiber Connectors
- 19" rack mount terminating panel (1 RU height) with 6 SC couplers
- 19" rack mount terminating panel (2 RU height) with 72 SC couplers
- Fiber cable should conform to 10 Gbps performance up to 300 meters or higher & must be UL Certified & ETL certified
- Fiber patch chords should conform to 10 Gbps performance & must be UL Certified & ETL certified

## H. "Full Layer 3 Core Switch for Haryana Civil Secretariat "

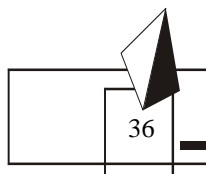
### Description -

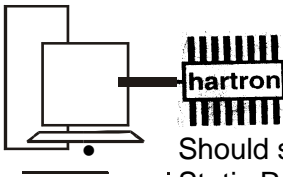
- Small Form Factor Aggregation Switch
- The switch should be modular and flexible enough for deploying 1G Ethernet & 10G Ethernet , 1 G fiber and 10 Gigabit Fiber, all in a small **1/2 R U** form factor (Rack mount switch maximum height 2 RU)
- Should support full layer 2, 3 & 4 features like: SNMP, RMON, VLAN, RIPv1, RIPv2, Static Routes, BGP (Border Gateway Protocol), IGMP, ICMP, OSPF, MAC address, **QoS, VLAN** etc.
- Minimum **24 nos. 10G Fiber** Ports with 10G SFP Modules supporting 50/125 micron multimode mode fiber cables up to 300 meters
- Switching **Fabric / Backplane Bandwidth**: Minimum **300 Gbps** & through put more than **250 Mpps** for IPv4 & **125 Mpps** for IPv6 for all layer 2, 3 & 4.
- Should have inbuilt 1+1 hot swappable AC power supplies and a field replaceable fan tray.
- Inbuilt SNMP Module with full v1, v2 & v3 compliance for Network Management.
- Compatible with all Ethernet IEEE 802 standards like IEEE 802.3x. IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x etc.
- **Port / Link Aggregation upto 80 Gbps**, Port Mirroring, Load Balancing, Both Unicast & Multicast Routing, DHCP Support, inter VLAN routing enabled.
- Should have hardware & time based ACLs & Hardware Multicast Management
- VLAN support: **minimum 4K VLAN** should have inbuilt management & PVST+ support for Multiple Spanning tree instances
- **IPv6 ready for all layer 2, 3 & 4.**
- 802.1x Port-Based Authentication
- Maximum supported Flash & SDRAM.
- Console Port for Management
- Latest IOS
- Automatic QoS (AutoQoS) simplifies QoS configuration in voice-over-IP (VoIP) networks by issuing interface & global switch commands to detect Cisco IP phones, classify traffic & enable egress queue configuration.

## I. "Full Layer 3 Core Switch for New Civil Secretariat Haryana & 30 Bays Building "

### Description -

- Small Form Factor Aggregation Switch
- The switch should be modular and flexible enough for deploying 1G Ethernet & 10G Ethernet, 1 G Fiber and 10 Gigabit Fiber, all in a small **1/2 R U** form factor (Rack mount switch maximum height 2 RU)





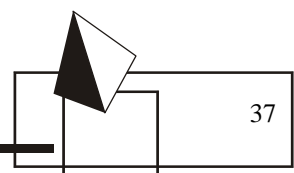
Should support full layer 2, 3 & 4 features like: SNMP, RMON, VLAN, RIPv1, RIPv2, Static Routes, BGP (Border Gateway Protocol), IGMP, ICMP, OSPF, MAC address, **QoS, VLAN** etc.

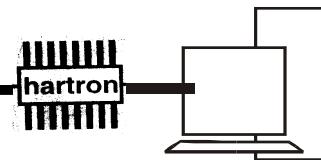
- Minimum **8 nos. 10G Fiber** Ports with 10G SFP Modules supporting 50/125 micron multimode mode fiber cables up to 300 meters
- Minimum **16 nos. 1000 BaseT RJ-45** Ports (should be upgradable to 10 G)
- Switching **Fabric / Backplane Bandwidth**: Minimum **300 Gbps** & through put more then **250 Mpps** for IPv4 & **125 Mpps** for IPv6 for all layer 2, 3 & 4.
- Should have inbuilt 1+1 hot swappable AC power supplies and a field replaceable fan tray.
- Inbuilt SNMP Module with full v1, v2 & v3 compliance for Network Management.
- Compatible with all Ethernet IEEE 802 standards like IEEE 802.3x. IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x etc.
- **Port / Link Aggregation upto 40 Gbps**, Port Mirroring, Load Balancing, Both Unicast & Multicast Routing, DHCP Support, inter VLAN routing enabled.
- Should have hardware & time based ACLs & Hardware Multicast Management
- VLAN support: **minimum 4K VLAN** should have inbuilt management & ; PVST+ support for Multiple Spanning tree instances
- **IPv6 ready for all layer 2, 3 & 4.**
- 802.1x Port-Based Authentication
- Maximum supported Flash & SDRAM.
- Console Port for Management
- Latest IOS
- Automatic QoS (AutoQoS) simplifies QoS configuration in voice-over-IP (VoIP) networks by issuing interface & global switch commands to detect Cisco IP phones, classify traffic & enable egress queue configuration.

**J. “Full Layer 3 Distribution Switch for Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN”**

**Description -**

- Switch should be 19” rack mountable with 2RU maximum height
- Should support external / internal redundant (dual) power supply
- Switch should be minimum **24 port 10/100/1000 Mbps** full duplex auto sensing copper ports
- Switch should have minimum **2 nos. 10G Fiber Port with 1 no 10G SFP module** capable of supporting 50/125 micron multimode mode fiber cables up to 300 meters.
- Switching Fabric / **Backplane Bandwidth**: Minimum **90 Gbps** & through put more then **60 Mbps for IPv4 & 30 Mbps for IPv6.**
- Media Interface 10BaseT/100BaseT/1000BaseT with RJ 45 connectors, 1000 Base X.
- Should support all **layer 2 & 3 features** like: SNMP, RMON, VLAN, RIPv1, RIPv2, BGP Static Routes, OSPF, MAC address, **QoS** etc.
- Compatible with all Ethernet IEEE 802 standards like IEEE 802.3x. IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x etc.
- Inbuilt SNMP Module with full v1, v2 & v3 compliance for Network Management.
- **Port / Link Aggregation upto 8 ports**, Port Mirroring, 802.1X Port-Based Authentication, Load Balancing, DHCP Support.
- VLAN support: **minimum 1K VLAN** should have inbuilt management ; PVST+ support for Multiple Spanning tree instances
- IPv6 ready for all layer 2,3
- Console Port for Management





- Latest IOS
- Automatic QoS (AutoQoS) simplifies QoS configuration in voice-over-IP (VoIP) networks by issuing interface & global switch commands to detect Cisco IP phones, classify traffic & enable egress queue configuration.

#### K. “Full Layer 2 Edge Switch for Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN”

##### Description –

- Switch should be 19” rack mountable with 1RU height
- Minimum **24 nos. 10/100** Mbps full duplex auto sensing inbuilt copper ports
- Minimum **2 nos. 10/100/1000** Mbps full duplex auto sensing inbuilt copper ports
- Switching Fabric / Backplane Bandwidth: **Minimum 16 Gbps** & through put more than 6 Mbps for IPv4 & 3 Mbps for IPv6
- Media Interface 10 Base T /100 Base T/ 1000 Base T with RJ 45 connector
- Should support all **layer 2 features** like: SNMP, RMON, VLAN, MAC address, **QoS** etc.
- Compatible with all IEEE 802 standards like IEEE 802.3x. IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x etc.
- Inbuilt SNMP Module with full v1, v2 & v3 compliance for Network Management.
- VLAN support: **minimum 250 VLAN** should have inbuilt management; PVST+ support for Multiple Spanning tree instances
- DHCP support, RMON support.
- Port Mirroring, 802.1X Port-Based Authentication
- QoS-IPv6 ready
- **Port / Link Aggregation upto 8 Ports**
- Console Port for Management
- Maximum supported Flash & SDRAM
- Latest IOS
- Automatic QoS (AutoQoS) simplifies QoS configuration in voice-over-IP (VoIP) networks by issuing interface & global switch commands to detect Cisco IP phones, classify traffic & enable egress queue configuration.

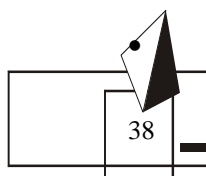
##### Desirable:

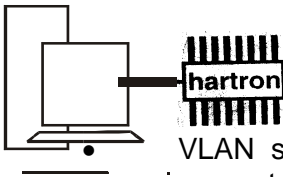
- Enhancement of 100 Base T ports to 1000 Base T through fabric. Back plane bandwidth (> 50 Gbps) and throughput (> 25 Mpps) to support non blocking architecture to support such enhancements.

#### L. “Full Layer 2 Edge Switch for Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN”

##### Description –

- Switch should be 19” rack mountable with 1RU height
- Minimum **48 nos. 10/100** Mbps full duplex auto sensing inbuilt copper ports
- Minimum **2 nos. 10/100/1000** Mbps full duplex auto sensing inbuilt copper ports
- Switching Fabric / Backplane Bandwidth: **Minimum 16 Gbps** & through put more than 10 Mpps for IPv4 & 5 Mpps for IPv6
- Media Interface 10 Base T /100 Base T/ 1000 Base T with RJ 45 connector
- Should support all **layer 2 features** like: SNMP, RMON, VLAN, MAC address, **QoS** etc.
- Compatible with all IEEE 802 standards like IEEE 802.3x. IEEE802.3ad, IEEE 802.1d, IEEE802.1w, IEEE802.1s, IEEE802.1x etc.
- Inbuilt SNMP Module with full v1, v2 & v3 compliance for Network Management.





- VLAN support: **minimum 250 VLAN** should have inbuilt management; PVST+ support for Multiple Spanning tree instances
- DHCP support, RMON support.
- Port Mirroring, 802.1X Port-Based Authentication
- QoS-IPv6 ready
- **Port / Link Aggregation upto 8 Ports**
- Console Port for Management
- Maximum supported Flash & SDRAM
- Latest IOS
- Automatic QoS (AutoQoS) simplifies QoS configuration in voice-over-IP (VoIP) networks by issuing interface & global switch commands to detect Cisco IP phones, classify traffic & enable egress queue configuration.

Desirable:

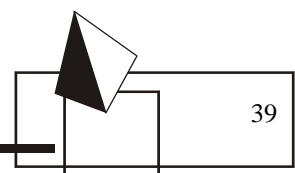
- Enhancement of 100 Base T ports to 1000 Base T through fabric. Back plane bandwidth (> 50 Gbps) and throughput (> 25 Mpps) to support non blocking architecture to support such enhancements.

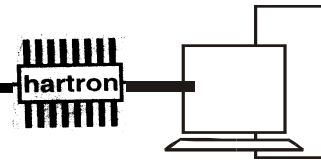
### Common features to all switches (Core, Distribution & Edge)

- Port based ACL for L2 interface to allow application of security policies on individual switch ports.
- Redundant power supply support (selected distribution & edge switches)
- Should support LLDP & LLDP-MED including client location information.
- Should exchange link & device information in multivendor networks.
- Compatible and latest OS on all switches, inbuilt support for Cisco IOS type command line interface / work on same command line / use interface.
- 802.1p (QoS), 802.1q (VLAN), 802.1d (Spanning Tree), 802.1w (Rapid spanning tree), 802.1s (Multiple Spanning Tree) capabilities.
- Should support QoS configuration & debugging.
- Should support central management of all the VLANs on the switching network.
- Layer 2 trace route for easy troubleshooting
- The switch should support central management of all the VLANs on the switching network.
- Any configuration change should not result in reboot of the switch
- Dynamic Arp and DHCP snooping support for mapping IP to Mac addresses
- Support for real time performance monitor

### M. Network Management software for H, I, J, K & L from the same OEM bundled with Core Switch for manageability of at least 100 components / devices in the network with following features –

- Commercial grade GUI driven, Web based Interface for enterprise network, which can manage proposed network upto node level.
- Should work on multiple operation platforms like Windows / Linux etc.
- Should offer integrated functions like –
  - Device Monitoring & Management,
  - Complete LAN Monitoring & Management upto Node Level in a single window,
  - Troubleshooting,
  - Traffic Management
  - VLAN management

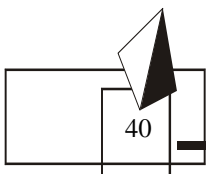


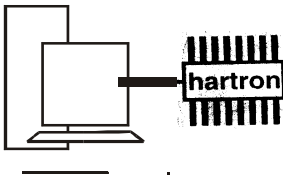


- Access Control
  - Complete Topology of network in single window
  - Device software upgrades management,
  - Configuration file management,
  - Fault & performance management &
  - User group-based privilege management.
  - Real-time device status & operational & configuration functions, all from in a standard web browser.
- Should have capability to discover & trace and add to all new additions in network upto port / node level.
  - It should provide graphical view of link and device status. The management systems should be capable of monitoring Round-trip response times, diagnose jitter and latency, identify network bottlenecks, analyses response time trends and determine device availability.
  - Should provide complete switch management up to port level for all switches from single server in Network Control Centre.
  - Should interface with IOS for multiple VLAN & user-id/password access management.
  - Should provide path analysis tool to perform the path analysis for Layer 2 and Layer 3 devices using devices hostname or IP addresses.
  - Should allow the user to customize views into network management application functionality or choose one of default views.
  - Provide real-time, detailed fault analysis with trap forwarding, trap generation, and email notifications capabilities
  - Should support automated updates for device software and configuration changes on a scheduled basis
  - Should provide complete switch management up to port level for all switches from single server in Network Control Centre.
  - Should be capable to view and auto discovers all network devices up to port level.
  - Should support minimum 100 network devices
  - The Management system should be IPv6 compatible

#### **N. UPS System –**

- 1000 VA Offline
- Type : Line Interactive at least with voltage
- Technology : PWM Mosfet Based Technology
- Input Volt: 160-270V
- Output Volt : a) 200-240V Mains Mode  
b) 220 + - 8% on Battery Mode
- Output Frequency: 50Hz + - 0.5Hz on Battery Mode
- Transfer Time: <8 milli second
- Battery Backup Time : should not be less than 336 VAH (4x12Vx7AH)





10. Floor wise tentative distribution of nodes and switches

a) Haryana Civil Secretariat:

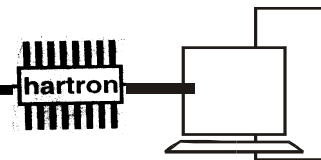
Floor	Estimated number of nodes (floor wise)	Switch Distribution		
		Core switch	Distribution Switches	Edge switches
9 <sup>th</sup>	220	1 (NIC)	2	14
8 <sup>th</sup>	230	-	2	12
7 <sup>th</sup>	144	-	1	8
6 <sup>th</sup>	106	-	1	6
5 <sup>th</sup>	250	-	2	13
4 <sup>th</sup>	200	-	2	10
2 <sup>nd</sup>		-	-	1
Ground		-	-	1
<b>Total</b>	<b>1150</b>	<b>1</b>	<b>10</b>	<b>65</b>

b) New Civil Secretariat Haryana

Floor	Estimated Number of nodes	Switch Distribution		
		Core switch	Distribution Switches	Edge switches
6 <sup>th</sup>	53		0	3
5 <sup>th</sup>	80		1	4
4 <sup>th</sup>	80		0	4
3 <sup>rd</sup>	102	-	0	5
2 <sup>nd</sup>	108		1	6
1 <sup>st</sup>	146	-	1	8
Ground	12	1 (NIC)		2
<b>Total</b>	<b>581</b>	<b>1</b>	<b>3</b>	<b>32</b>

c) 30 Bays Building:

Floor	Estimated Number of nodes	Switch Distribution		
		Core switch	Distribution Switches	Edge switches
3 <sup>rd</sup>	294	-	2	16
2 <sup>nd</sup>	397	1 (NIC)	2	22
1 <sup>st</sup>	290	-	2	18
Ground	15	-	-	1
<b>Total</b>	<b>996</b>	<b>1</b>	<b>6</b>	<b>57</b>



## 11. Implementation Services

The awarded bidder will deliver comprehensive management and technical services associated with the implementation of the system, including:

- Project Management
- Network Design, Implementation, Delivery, Installation, Acceptance Testing and Migration of Services which includes –
  - i. Creation and Management of VLANs, User Rights, Users Permissions, Network Securities & Policies
  - ii. Management of all others services like network printer etc.
  - iii. NICNET & SWAN (ADHAAR) Applications & Services
- Training
- Operations Support, Service and Maintenance

## 12. Network Acceptance

The network shall be accepted by the NIC / SIT after successful implementation & connectivity of all the locations & trouble free operations for 30 days. All test reports should be verified & accepted by NIC. Final Acceptance certificate should be issued by NIC / SIT after verification of test reports.

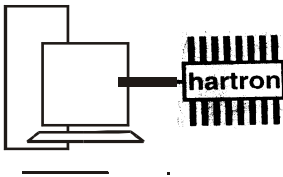
## 13. Documentation

The awarded bidder will provide up-to-date industry standard system and user documentation with each component or module before acceptance testing commences. Bidder will furnish to the NIC / SIT Haryana, prior to the final testing or the acceptance of the components, whichever is an earlier, complete instruction manual. Such manuals will include the latest revisions to the Component and software and any changes that have occurred during the installation and testing. Documentation will be provided using both paper and electronic media.

**The Successful bidder shall document all the installation and commissioning procedures and provide the same to the SIT / NIC / HARTRON within one week of the commissioning of Project. The Successful bidder shall submit a complete cabling system layout (as installed), including cable routing fiber & copper, communication outlet/ connector designations. The layout shall detail locations of all equipment and indicate all wiring pathways.**

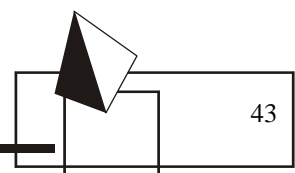
## 14. Key Responsibilities of successful bidder –

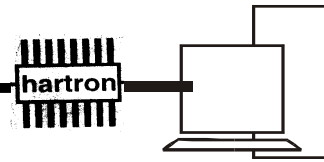
- ✓ Ensuring that the network is available 24x7x365 as per the prescribed in this RFP
- ✓ Attending to and resolving network failures and snags
- ✓ Support and maintain the overall network infrastructure including but not limited to LAN passive components etc.
- ✓ Configuration and backup of network devices including documentation of all configurations.
- ✓ 24x7x365 monitoring of the network to spot the problems immediately.
- ✓ Provide information on performance of Ethernet / Fiber segments, including capacity utilization and error statistics for the segment and the top-contributing hosts and link status.
- ✓ Reports – Network Assistant deputed by bidder shall work under the supervision of NIC / SIT as per NIC norms (working hours (8.00 AM to 6.00 PM & 6 days in a week), terms & conditions and submit the reports on a regular basis in a mutually decided format with following options: Daily Report, Weekly Report, Monthly Report etc.



**Note –**

1. The objective of this bid is to establish a **Secured Centralized Structured Network** of all nodes to be installed in Haryana Civil Secretariat.
2. LAN, in proposed site, is still working. Some conduit has already been reused. The methodology of cabling an installation work, to be adopted, has to ensure minimum damage to the existing finish and no loss to the aesthetic beauty of the Haryana Civil Secretariat. Any damage to the existing flooring / walls etc. shall be made good by the bidder. It is advised that bidder should visit the site before submitting the bid to get apprised about the site conditions.
3. All switches have automatic QoS (AutoQoS) simplifies QoS configuration in voice-over-IP (VoIP) networks by issuing interface & global switch commands to detect Cisco IP phones, classify traffic & enable egress queue configuration.
4. All switches have full support of any type of VC equipment like POLYCOM, Lifesize etc.
5. The rates quoted should be FOR destination.
6. The price quoted should be inclusive of all charges including all applicable taxes, Octroi, freight and handling charges, and all other miscellaneous expenses.
7. In case of discrepancy between unit price and total price, the unit price will prevail.
8. The quoted rates should be inclusive of preparing of cable layout / diagram.
9. Charges for annual maintenance charges of the net hardware would become applicable after expiry of warranty period and would remain unchanged for the next 5 years after the warranty period expires
10. Price must be quoted with 3 years onsite warranties.
11. The rates finalized will be valid for 90 days.
12. All the active components should be of the same make/ manufacture & should be covered under the same back-up guarantee from the same OEM, to ensure the full compatibility, inter-working & inter-operability.
13. All the passive components (Patch Cord, Cable, Patch Panel etc.) should also be of the same make / manufacture so that they should be covered under same back-up guarantee from the same OEM, to ensure the full compatibility, inter-working & inter-operability.
14. The Tenderer/Bidder shall mention the Item Model No./Part No. of each Active & Passive Components & submit the technical specification of each component.
15. The Arrangement/option/quantity may increase or decrease. The quantity of Passive components like conduit, cable etc. is tentative and may vary as per site requirement & will be paid extra as per actual consumption.
16. In case of any additional item like Switch, Jack Panel, Rack etc. is required the same be provided/installed by supplier after written confirmation by respective nodal officer at site.





17. Service Information Cards with details (Address of Service Center with nearest place to installation, phone no., engineer name etc.) be provided along with equipments.
18. The supplier shall furnish complete, well-fabricated and reliably operating and secure centralized systems as described in this document. Design and selection of equipment and Network Management Software shall be consistent with the requirements of long-term trouble free operation with highest degree of reliability and maintainability. All equipment shall be constructed to operate safely without undue heating, vibration, wear, corrosion, electromagnetic interference or similar problems and all software shall be proven, tested and reliable.
19. The successful bidder will be apprise the users for configuring their equipment / device to use the services.
20. The successful bidder is required to supply the latest updates, patches and upgrades of Network Management Software free of cost during the warranty period.
21. The successful bidder shall be responsible for connecting all the offices etc. as per the proposed defined connectivity & the network should be secured on an end-to-end basis.
22. The successful bidder will be apprise the users for configuring their equipment / device to use the services.

(Signature of the bidder)

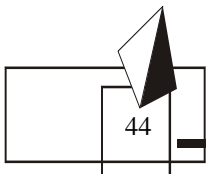
Name of Firm: M/s \_\_\_\_\_

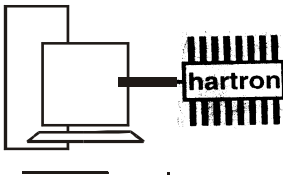
Name of Bidder: \_\_\_\_\_

Address: \_\_\_\_\_

Place:

Date:

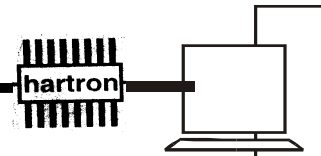




**Project / Delivery Schedule**

To be filled by the bidder according to allotted delivery & installation time frame i.e. 8 weeks from the approval of cable diagram –

S#	Activity	Schedule
1.	LAN design, Cabling Diagram and Node Identification & Submission	2 Week
	<b>Submission of LAN Design</b>	
2.	Approval of LAN design, Cabling Diagram and Node Identification	By NIC / SIT
3.	Supply of Passive components	
4.	Cable (UTP / Fiber) laying, Termination, IO fixing, Rack Installation	
5.	Supply & Installation of Active Components	
	<b>Submission of Delivered Material Bill as per Purchase Order</b>	
6.	Testing of the laid cable	
7.	Rectification of faults	
8.	Installation, connectivity and testing of the LAN,	
9.	Integration with Server, Nodes	
	<b>Submission of Installation Report with BG</b>	
10.	NMS configuration for NCC Central NMS management	
11.	Network Audit/Submission of all Test Reports/Inspection by purchaser	
12.	Rectification of defects pointed out by purchaser	
13.	Final Inspection by Purchaser	
14.	Posting of Network Assistant for 2 years from date of acceptance	Immediately after Final inspection
15.	Training of purchaser staff	
16.	Final Acceptance by Purchaser	One months trouble free operation from Date of final inspection
17.	20 Years Certification from authorized network integrator	Within 1 month of final acceptance



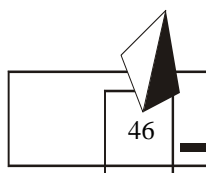
## CHECKLIST

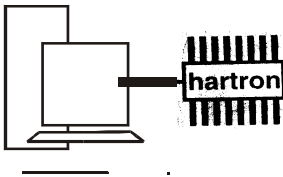
### Checklist for Bid Submission

The following check-list must be filled in and submitted with the bid document:

<b>Pre Qualification Bid :</b>	
Have you attached the <b>Tender document fee</b> for the required amount?	Yes/No
Have you attached the <b>Bid security</b> for the required amount?	Yes/No
Have you attached the <b>General Information of bidder</b> (Form – 1)?	Yes/No
Have you attached proof of the <b>Manufacturer's Authorisation</b> (Annexure – 1)?	Yes/No
Have you attached <b>Certificate of Acceptance</b> (Annexure – 4)?	Yes/No
Have you attached Certificate of <b>After sales service support</b> (Annexure – 3)?	Yes/No
Have you attached <b>proof of the sales turnover</b> of your firm during last two financial years (Form – 2)?	Yes/No
Have you attached <b>details of staff</b> (Form – 3)?	Yes/No
Have you attached <b>Customer List of Similar LAN</b> (Form – 4)?	
Have you attached <b>Firm Registration Details / Proof?</b>	Yes/No
Have you attached <b>latest income tax clearance</b> certificate?	Yes/No
Have you attached details of <b>ISO, PAN &amp; TIN No.</b>	Yes/No
Have you attached the copies of relevant <b>work orders</b> of similar projects?	Yes/No
Have you provided details of your maintenance infrastructure facilities including <b>addresses of the service centers</b> (Annexure – 7)?	Yes/No
<b>Technical Bid:</b>	
Have you attached the Technical Bid form Annexure – 5)?	Yes/No
Have you attached Certificate of Undertaking of rates (Annexure – 2)?	Yes/No
Have you attached the statement of technical certification and compliances and statement deviations from the technical specifications? (Annexure – 6)	Yes/No
Have you attached the technical details of the solution	Yes/No
Have you attached the technical details of the goods and services offered as a part of this bid document?	Yes/No
Have you attached certificate of completeness of solution	Yes/No
Have you attached the details of all the make & model of active & passive components as per <b>Part – C</b>	Yes/No
Have you attached the OEM support Certificate, List and address of OEM support centres in India	Yes/No
<b>Commercial Bid:</b>	
Have you attached the Commercial bid form in the format shown in Annexure - 8?	Yes/No
Have you attached the statement of unit prices and price schedule for the goods/services offered in the format specified in Annexure – 9?	Yes/No
Have you attached the statement of deviations from the commercial terms and conditions in the format specified in Annexure – 10?	Yes/No

**Note - Bidders must provide compliance details along with technical bid for all active components with NMS.**





## Format for Bid Submission

**Please arrange your bid document for each part as given below:**

### **PRE QUALIFICATION BID:**

1. General Information of bidder (Form – 1);
2. Tender Fee;
3. Bid Security (EMD);
4. Proof of Annual Turnover (Form –2);
5. Firm Registration Details / Proof
6. Latest Income Tax Clearance Certificate;
7. Certificate of Acceptance (Annexure 4);
8. Manufactures Authorisation Certificate (Annexure 1);
9. After Sales Service Form (Annexure 3);
10. Details of service centers at Chandigarh (Annexure – 7);
11. Details of Staff (Form – 3)
12. Copies of relevant work orders with installation report & client reference list (Form IV)
13. ISO Certification, PAN No. & TIN No.
14. Customer List with details of LAN equipment with order value
15. Declaration Regarding Clean Track Record (Annexure – 11);

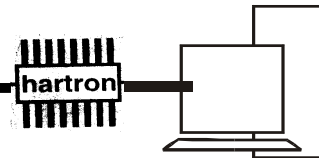
### **TECHNICAL BID:**

1. Technical Bid Form (Annexure 5);
2. Undertaking of Rates (Annexure 2);
3. Technical details of solution;
4. Technical details of the goods and services offered;
5. Make & Model of all the active & passive components as per part - C ;
6. Statement of Technical certification & compliance and deviation from the technical specifications (Annexure – 6);
7. Delivery Schedule
8. Certificate of completeness of solution
9. OEM support certificate;

### **COMMERCIAL BID:**

1. Bid Form (Annexure – 8);
2. Price schedule of cost of goods and services offered (Annexure – 9);
3. Commercial Deviation (Annexure – 10);
4. Undertaking - An undertaking from the Bidder stating the compliance with all the conditions of the Contract and Technical Specifications of the Bidding Document since no deviation will be acceptable to SIT / NIC / HARTRON.

**Note - Bidders must provide compliance details along with technical bid for all active components with NMS.**

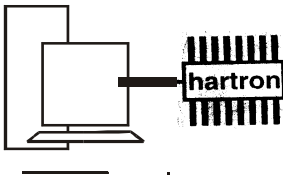


## General Information of the Bidder –

### Form – I

The Bidder shall furnish details on the following lines:

The Registered name of the company	
Address of Registered office	(Registration Number and Registration authority)
Year of Incorporation	
Legal Status	Public Ltd. Co. / Private Co. / Partnership firm etc.
Technological Collaborations	
Business address for correspondence in India	Location
	Street City
	Pin Code
	Telephone / Facsimile
	Email
	Other (URL etc.)
Valid Sales tax registration no.	
Valid Service tax registration no.	
Permanent Account Number (PAN)	
Name & Designation of the contact person to whom all references shall be made regarding this tender	
Contact addresses if different from above	
Contact no. & E-Mail of the contact person:	
Business Structure	
Quality Certifications	(Enclose Certificates copy)
<b>Details of EMD furnished</b>	Amount
	Date
	Bank & Branch
<b>Details of Tender Fee furnished</b>	Amount
	Date
	Bank & Branch



**Form II  
Particulars of Turnover**

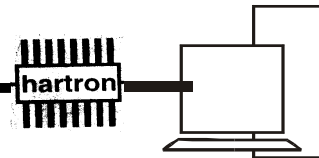
Name of the Bidder				
Particulars of Turnover in the preceding three years as per audited accounts (in Rs. Crores). Specify the turnover information for Networking only.				
Financial Year	Total Turnover (TO) / Income			Net Profit
	Global	India	Govt.	
2007-08				
2008-09				
2009-10				

**Note:**

- Please attach audited Balance Sheets of last 3 years- Provide sufficient evidence to support information provided in the above table.

**Form III  
Details of Staff**

Name of the Bidder			
Total no. of professional staff as on tender publishing date			
S#	Category	Total Staff	Staff in Chandigarh / other places in India Please give details office wise if bidder has more then one office in India
1	Project Management		
2	Network Design		
3	Quality Assurance/ Network Certification		
4	Cabling Layout & Design		
5	Any others relevant to this project		



## Form – IV

### Experience and track record in the field of the setting up of LANs

A description of the company's qualifications demonstrating prior Successful Deployments in either public or private sector showing:

- Local Area Network comparable in size and scope to the requirements of this RFP;
- Deployment of resources/manpower sufficient to respond to implementation within the timeframes stated in this RFP

A brief description of the company's experience in providing similar solutions to Government clients in India, relevant to LAN Design and Operations.

The details to be provided in this regard are:

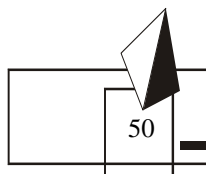
Name of the Assignment
Name of the client
Location of the Project and the country
Start date and End Date
Name and contact details of the Key personnel associated with the project for reference
Approximate value of services (desirable)
Narrative description of the project
Support/ Maintenance obligations (if applicable)

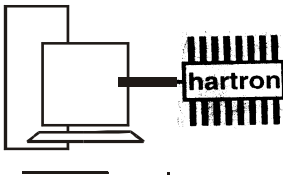
### Client Reference list

Bidder must list the names of at least three companies or government organizations for which it has provided similar services of a comparable scale and complexity as outlined in this RFP.

The project referred in this context shall be discussed in detail as part of the client's experience.

Reference Site	Please specify the following information:	
	Name and location of the reference site	
	Contact Person/ Designation	
	Contact person's address, telephone number And e-mail	
	Any other relevant information	





**ANNEXURE – 1**

**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: -

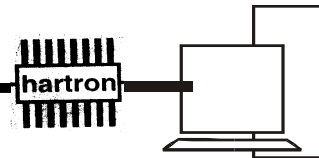
- (i) That this is to certify that M/s \_\_\_\_\_ is our authorized dealer/distributor/agent and he is authorized to submit tender/quote the rates in the State of Haryana, against tender enquiry No. \_\_\_\_\_ due on \_\_\_\_\_ and to supply the material in original manufactured by us.
- (ii) That we shall have full responsibility of satisfactory supplies against the supply order/rate contract if dealer/distributor/agent against the above mentioned tender inquiry.
- (iii) That I am fully authorized to give this affidavit on behalf of HARTRON and the power of attorney have 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/rate contract.
- (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 – 2**

**UNDERTAKING OF RATES**

**From**

-----  
-----

**To**

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

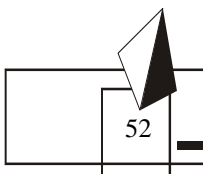
We do hereby confirm that:

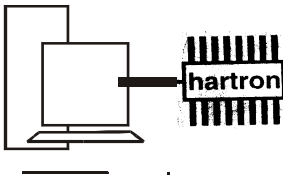
1. The rates quoted against this tender are lowest possible and as on date we have not quoted lesser rates to any other customer than the rates quoted herein. In case, we quote lesser rates than this tender to any other customer within 1 month of the due date of this tender, then double of the difference 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 a week 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 – 3**

**AFTER SALE SERVICE CERTIFICATE**

From:

-----  
-----

To

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

Whereas, we M/s (Bidder Name) are established & reputable manufacturers/authorized dealer for sales & services of (Make of equipment/accessories) of equipment/accessories having service offices at Chandigarh. Details are as under:

Sr. No.	Address of Service Centre	Phone No.	Number of Engineers

We do hereby confirm that:

Services including repair/replacement of defective parts will be done by us and fully backed by (name of the principal). Replacement of defective Equipments/parts will be done by equivalent or better equipments/parts of the same make. We will attend all the complaints/service calls within 4 hours. Down time will not exceed beyond 8 hours. In case, down time exceed 8 hours then we will extend the warranty period of that equipment / peripherals double of the down time.

(Signature)

Name :

Designation :

(Head or Senior Executive of Firm)

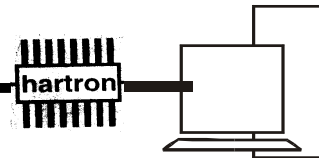
Address :

Phone No :

Fax No :

Pager No :

Mobile No :



**ANNEXURE – 4**

**CERTIFICATE OF ACCEPTANCE**

I/We hereby offer to supply the networking items in the manner in which and within the time specified as set forth in the Notice Inviting Tender during the empanelment period.

I/We herewith enclose deposit receipt for sum of `.....as Earnest money & `..... as non-refundable Empanelment Fee 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.

I declare that all the provisions of this RFP/Tender Document are acceptable to my company. I further certify that I am an authorized signatory of my company and am, therefore, competent to make this declaration

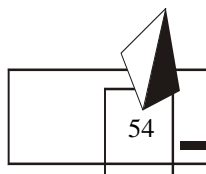
Read and accepted.

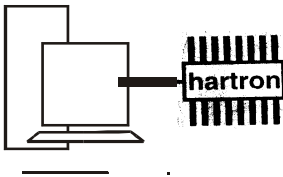
Signature of the Tenderer

**Seal**

**Date**

**Business Address**





**ANNEXURE – 5**

**BID FORM  
(Technical Bid)**

(To be submitted on the firm's letter head and signed by an authorised person)

To

Managing Director,  
Haryana State Electronics Development Corporation Limited,  
SCO 111-113, Sector 17-B,  
Chandigarh.

Ref: Bid document No. Hartron/MSG/2011/..... dated .....

Sir,

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver goods as per the of given in and in conformity with the said bidding documents.

We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the bidding documents.

We agree to abide by this bid for a period of Ninety days after the date fixed for opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

1. We declare:

i) that we are the manufacturers/ authorised agents/ distributors of

\_\_\_\_\_

ii) that we/our principals are equipped with adequate machinery for production quality control and testing of offered products manufactured/developed and used by us.

iii) Our annual sales turnover for the last financial year was more than the eligibility amount as mentioned in the bidding document.

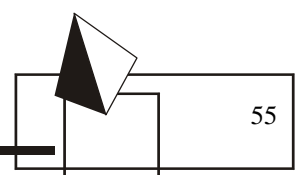
2. We hereby offer to supply the Goods / Services at the prices and rates mentioned in the Commercial Bid.

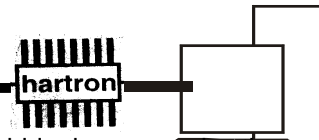
3. We enclose herewith the complete Technical Bid as required by you. This includes:

- Technical Bid Form (Annexure 5);
- Undertaking of Rates (Annexure 2);
- Technical details of solution;
- Technical details of the goods and services offered;
- Make & Model of all the active & passive components as per part - C ;
- Statement of Technical certification & compliance and deviation from the technical specifications (Annexure – 6);
- Delivery Schedule
- Product catalogues/other informative material about our products and services
- Compliance details

4. We have carefully read and understood the terms and conditions of the bid document and the conditions of the contract applicable to the bid document and we do hereby undertake to supply as per these terms and conditions.

5. Certified that the bidder is:





a sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of the sole proprietor,

or

a partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/ by virtue of general power of attorney,

or

a company and the person signing the bid document is the constituted attorney.

*(NOTE: Delete whatever is not applicable. All corrections / deletions should invariably be duly attested by the person authorised to sign the bid document.)*

6. We do hereby undertake, that, until a formal work order is prepared and executed, this bid, together with your written acceptance thereof and placement of letter of intent awarding the work order, shall constitute a binding contract between us.

Dated this day of 2011

Signature of Bidder

Details of enclosures.

Full Address:

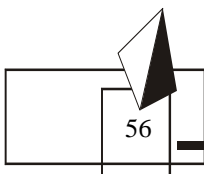
Telephone No.

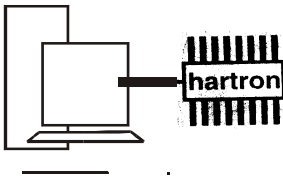
Telegraphic Address:

Fax No.

E-mail:

**COMPANY SEAL**





ANNEXURE- 6

Statement of Technical Certification

Items	Make & Model/ OS version	Certification/ Compliances	Performance Specifications 10Mbps, 100 Mbps, 1 Gbps, 10 Gbps	Technical Specification Attached
[CORE SWITCH- Configuration H]				
[CORE SWITCH – Configuration I ]				
[DISTRIBUTION SWITCH – Configuration J ]				
[EDGE-SWITCH 10/100 24 port – Configuration K]				
[EDGE-SWITCH 10/100 48 port – Configuration L]				
[EDGE-SWITCH 10/100/1000 24 port]				
10G Fiber Module for Core, Distribution				
Network Management Software with manual & media				
24 Port Patch Panel with Cable Manager				
9U & 12U Wall Mount Rack Unit with accessories (Power Supply, Fans, Cable Trays etc.)				
Single / Dual Port I/O with SMB				
Patch Cord – 1 Meter (3 feet)				
Patch Cord – 2 Meter (7 feet)				
UTP Cable (Cat-6a)				
UTP Cable (Cat-6)				
MK Channel 100:50				
1." PVC Channel (ISI)				
1.5 "PVC Conduit (ISI)				
1 KVA Offline UPS				
<b>OTHERS</b>				
Multi Mode Optical Fiber Cable			-	
Fiber Termination Units – LIU (24 Port)			-	
Multi Mode SC Fiber Patch Cord 3 Meter			-	
Adapter Plate / Connecting Panel			-	
Multi Mode Fiber SC Adopter / Connector				

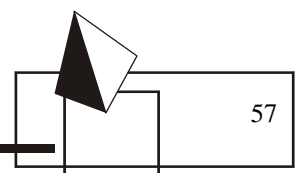
(Signature of the bidder)

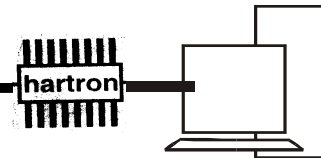
Name:

Place:

Date:

(Seal)

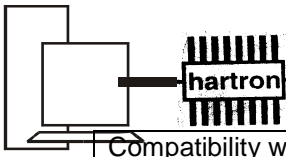




**ANNEXURE – 6 (A)**

**Technical Evaluation Sheet**

Items	Specifications of offered product	Details of superiority over tender specifications
<b>Core switch</b>		
Back plane speed		
Port Speed supported		
Stacking port		
Stack port speed		
Security		
Manageability		
Recovery from failures		
Compatibility with existing WAN Infrastructure		
Switch OS certification		
<b>Distribution Switch</b>		
Back plane speed		
Port Speed		
Stacking port		
Stack port speed		
Security		
Manageability		
Recovery from failures		
Compatibility with existing WAN Infrastructure		
Switch OS certification		
<b>Edge switches 10/100</b>		
Back plane speed		
Port Speed		
Stacking port		
Stack port speed		
Security		
Manageability		
Recovery from failures		
Compatibility with existing WAN Infrastructure		
Switch OS certification		
<b>Edge switches 10/100/1000</b>		
Back plane speed		
Port Speed		
Stacking port		
Stack port speed		
Security		
Manageability		
Recovery from failures		



Compatibility with existing WAN Infrastructure		
Switch OS certification		
<b>Common Features to all switches</b>		
Security		
Manageability		
Recovery from failures		
<b>Network Management Software for 100 devices</b>		
<b>Passive Components</b>		
24 Port Patch Panel with Cable Manager (Cat-6)		
9U & 12U Wall Mount Rack Unit with accessories (Power Supply, Fans, Cable Trays etc.)		
Single / Dual Port I/O with SMB (Cat-6)		
Patch Cord – 1 Meter (3 feet) Cat-6a		
Patch Cord – 2 Meter (7 feet) Cat-6a		
UTP Cable (Cat-6a)		
UTP Cable (Cat-6)		
Multi Mode Optical Fiber Cable		
Fiber Termination Units – LIU (24 Port)		
Multi Mode SC Fiber Patch Cord 3 Meter		
Multi Mode Fiber SC Adopter / Connector		
1 KVA Offline UPS		
<b>Site Engineer / Network Engineer</b>		
Qualification, certification & Experience of on site engineers		
Availability of local expertise and backup		
Local presence		

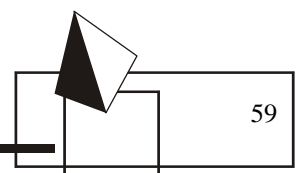
**(Signature of the bidder)**

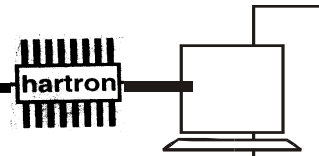
**Name:**

**Place:**

**Date:**

**(Seal)**

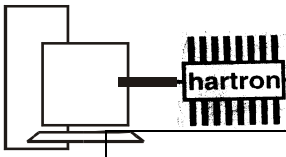




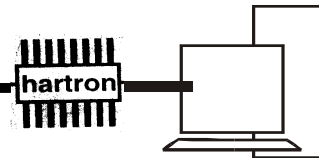
## ANNEXURE – 6 (B)

### Criterion for Technical Evaluation

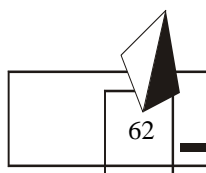
Items	Specifications of offered product	Marks		Weightage
		As per tender specifications	Enhanced or better than tender specification	
<b>Core switch</b>				
Back plane speed		2	3	
Port Speed supported		2	3	
Stacking port		2	3	
Stack port speed		2	3	
Security		2	3	
Manageability		2	3	
Recovery from failures		2	3	
Compatibility with existing WAN Infrastructure		2	3	
Switch OS certification		2	3	
<b>Marks</b>		<b>18</b>	<b>27</b>	<b>6/9</b>
<b>Distribution Switch</b>				
Back plane speed		2	3	
Port Speed		2	3	
Stacking port		2	3	
Stack port speed		2	3	
Security		2	3	
Manageability		2	3	
Recovery from failures		2	3	
Compatibility with existing WAN Infrastructure		2	3	
Switch OS certification		2	3	
<b>Marks</b>		<b>18</b>	<b>27</b>	<b>6/9</b>
<b>Edge switches 10/100</b>				
Back plane speed		2	3	
Port Speed		2	3	
Stacking port		2	3	
Stack port speed		2	3	
Security		2	3	
Manageability		2	3	
Recovery from failures		2	3	
Compatibility with existing WAN Infrastructure		2	3	
Switch OS certification		2	3	
<b>Marks</b>		<b>18</b>	<b>27</b>	<b>3/4.5</b>

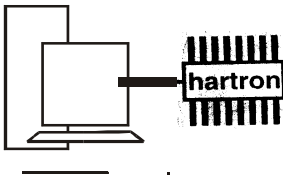


<b>Edge switches 10/100/1000</b>				
Back plane speed		2	3	
Port Speed		2	3	
Stacking port		2	3	
Stack port speed		2	3	
Security		2	3	
Manageability		2	3	
Recovery from failures		2	3	
Compatibility with existing WAN Infrastructure		2	3	
Switch OS certification		2	3	
<b>Marks</b>		<b>18</b>	<b>27</b>	<b>3/4.5</b>
<b>Common Features to all switches</b>				
Security		3	5	
Manageability		3	5	
Recovery from failures		3	5	
<b>Marks</b>		<b>9</b>	<b>15</b>	<b>9/15</b>
<b>Network Management Software</b>		5	10	<b>5/10</b>
<b>Passive Components</b>				
24 Port Patch Panel with Cable Manager (Cat-6)		2	3	
9U & 12U Wall Mount Rack Unit with accessories (Power Supply, Fans, Cable Trays etc.)		2	3	
Single / Dual Port I/O with SMB (Cat-6)		2	3	
Patch Cord – 1 Meter (3 feet) Cat-6a		2	3	
Patch Cord – 2 Meter (7 feet) Cat-6a		2	3	
UTP Cable (Cat-6a)		2	3	
UTP Cable (Cat-6)		2	3	
Multi Mode Optical Fiber Cable		2	3	
Fiber Termination Units – LIU (24 Port)		2	3	
Multi Mode SC Fiber Patch Cord 3 Meter		2	3	
Multi Mode Fiber SC Adopter / Connector		2	3	
1 KVA Offline UPS System		2	3	
<b>Marks</b>		<b>24</b>	<b>36</b>	<b>12/18</b>



<b>Network Engineer / Site Engineer</b>				
Qualification (diploma / degree), Certification(OEM) & Experience of Site Engineers in terms of Operating System, Proxy, Network Monitoring & Management		3	5	
Availability of local expertise and backup		3	5	
Local presence		3	5	
<b>Marks</b>		<b>9</b>	<b>15</b>	<b>9/15</b>
<b>Total Marks</b>		<b>53</b>	<b>85</b>	
<b>Minimum qualifying Marks for opening of Financial bid</b>	<b>Average of Maximum and Minimum : <math>\geq 69</math></b>			





**ANNEXURE – 6 (C)**

**STATEMENT OF DEVIATIONS FROM TECHNICAL SPECIFICATIONS**

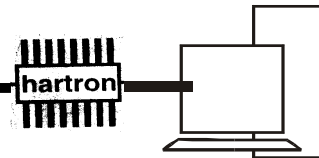
Dear Sirs,

Following are the Technical deviations and variations from the Technical specifications. These deviations and variations are exhaustive. Except these deviations and variations, the entire work shall be performed as per your specifications and documents.

Items / Lan Components	Statement of deviations /Variations
[CORE SWITCH- Configuration H]	
[CORE SWITCH – Configuration I ]	
[DISTRIBUTION SWITCH – Configuration J ]	
[EDGE-SWITCH 10/100 24 port – Configuration K]	
[EDGE-SWITCH 10/100 48 port – Configuration L]	
[EDGE-SWITCH 10/100/1000 24 port]	
10G SFP Module for Core, Distribution	
Network Management Software with manual & media	
24 Port Patch Panel with Cable Manager	
9U & 12U Wall Mount Rack Unit with accessories (Power Supply, Fans, Cable Trays etc.)	
Single / Dual Port I/O with SMB	
Patch Cord – 1 Meter (3 feet)	
Patch Cord – 2 Meter (7 feet)	
UTP Cable	
MK Channel 100:50	
1." PVC Channel (ISI)	
1.5 "PVC Conduit (ISI)	
1 KVA Offline UPS	
<b>OTHERS</b>	
Multi Mode Optical Fiber Cable	
Fiber Termination Units – LIU	
Multi Mode SC Fiber Patch Cord 3 Meter	
Adapter Plate / Connecting Panel	
Multi Mode Fiber SC Adofter / Connector	

**Signature of the Bidder**

Name:  
Date  
Place:  
Business Address:



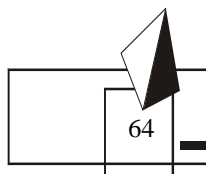
**ANNEXURE – 7**

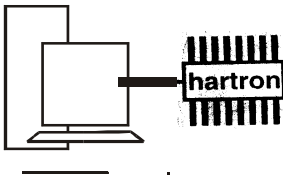
**MAINTENANCE INFRASTRUCTURE FACILITIES INCLUDING ADDRESSES OF THE SERVICE CENTERS IN CHANDIGARH**

<b>LOCATION</b>	<b>Address of the Service Centre</b>	<b>Name of the Contact Person with Telephone no., Fax No. and E-mail</b>	<b>Total No. of qualified Service Engineers</b>	<b>Remarks</b>
<b>CHANDIGARH</b>				

**Signature of the Bidder**

Name:  
Date  
Place:  
Business Address:





ANNEXURE – 8

**Bid Form (Commercial Bid)**  
**(on the letter head of the firm submitting the bid document)**

To

Managing Director,  
Haryana State Electronics Development Corporation Limited,  
SCO 111-113, Sector 17-B,  
Chandigarh.

Ref: Bid document No. Hartron/MSG/2011/..... dated .....

Sir,

Having examined the bidding documents, the receipt of which is hereby duly acknowledged, and having submitted the technical bid for the same, we, the undersigned, hereby submit the commercial bid for supply of goods and services as per the given in and in conformity with the said bidding documents.

We hereby offer to supply the Goods / Services at the prices and rates mentioned in the Commercial Bid.

We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the bidding documents.

We agree to abide by this bid for a period of Ninety days after the date fixed for opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

1. We declare:

- i) that we are the manufacturers/ authorised agents/ distributors of  
\_\_\_\_\_
- iv) that we/our principals are equipped with adequate machinery for production quality control and testing of offered products manufactured/developed and used by us.
- v) Our annual sales turnover for the last financial year was more than the eligibility amount as mentioned in the bidding document.

2. We have carefully read and understood the terms and conditions of the bid document and the conditions of the contract applicable to the bid document and we do hereby undertake to supply as per these terms and conditions.

3. Certified that the bidder is:

a sole proprietorship firm and the person signing the bid document is the sole proprietor/constituted attorney of the sole proprietor,

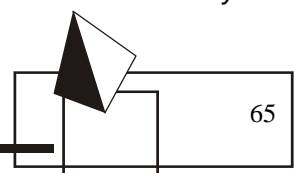
or

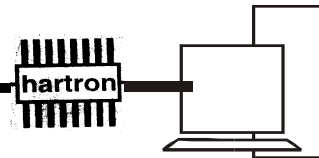
a partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/ by virtue of general power of attorney,

or

a company and the person signing the bid document is the constituted attorney.

*(NOTE: Delete whatever is not applicable. All corrections / deletions should invariably be duly attested by the person authorised to sign the bid document.)*





4. We do hereby undertake, that, until a formal work order is prepared and executed, this bid, together with your written acceptance thereof and placement of letter of intent awarding the work order, shall constitute a binding contract between us.

#### 5. PERIOD OF DELIVERY

We do hereby undertake, that, in the event of acceptance of our bid, the supply of Goods/Services shall be made as stipulated in the schedule to the Bid document and that we shall perform all the incidental services.

#### 6. TERMS OF DELIVERY

The prices quoted are inclusive of all charges inclusive of installation and commissioning Charges.

7. We enclose herewith the complete Commercial Bid as required by you. This includes:

- Bid Letter
- Consolidated statement of prices
- Price Schedule
- Statement of deviations from commercial terms and conditions
- Price schedule for post Warranty AMC Charges

8. We agree to abide by our offer for a period of **90 days** from the date fixed for opening of the bid documents and that we shall remain bound by a communication of acceptance within that time.

9. We have carefully read and understood the terms and conditions of the bid document and we do hereby undertake to supply as per these terms and conditions. The Commercial Deviations are only those mentioned in the statement of deviations from commercial terms and conditions.

Dated this day of 2011

Signature of Bidder

Details of enclosures.

Full Address:

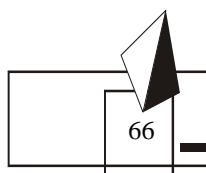
Telephone No.

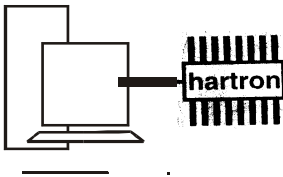
Telegraphic Address:

Fax No.

E-mail:

**COMPANY SEAL**





ANNEXURE – 9

Statement of Unit prices & Total Price inclusive of all taxes, duties with 3 years warranty

S#	Item Description	App. Qty.	Make	Model Series	Model No.	Part No.	Unit Price inclusion of all taxes & duties	Total Amount
1	Full Layer 3 Core Switch as per Technical Specification <b>[CORE SWITCH as per Specification H]</b>	1						
2	Full Layer 3 Core Switch as per Technical Specification <b>[CORE SWITCH as per Specification I]</b>	2						
3	Full Layer 3 Distribution Switch as per Technical Specification <b>[DISTRIBUTION SWITCH as per Specification J ]</b>	19						
4	10G SFP Module for Core & Distribution Switches	59						
5	Full Layer 2 Edge Switch with minimum 24 nos. 10/100 Mbps full duplex copper ports with minimum 2 nos. 10/100/1000 Mbps inbuilt copper ports <b>[Edge Switch as per technical specification K]</b>	120						
6	Full Layer 2 Edge Switch with minimum 48 nos. 10/100 Mbps full duplex copper ports with minimum 2 nos. 10/100/1000 Mbps inbuilt copper ports <b>[Edge Switch as per technical specification L]</b>	10						
7	Full Layer 2 Edge Switch with minimum 24 nos. 10/100/1000 Mbps full duplex auto sensing inbuilt copper ports <b>[Edge Switch as per technical specification K with above mentioned ports &amp; speed]</b>	15						
8	1000 Base-T GBIC module for existing Cisco 2950-24EI Switches	24						
9	Network Management Software with Manual & Media	3						
10	24 Port Patch Panel with Cable Manager (Cat-6a)	182						
11	12U Wall Mount Rack Unit with accessories (Power Supply, Fans, Cable Trays etc.)	19						
12	9U Wall Mount Rack Unit with accessories (Power Supply, Fans, Cable Trays etc.)	135						




13	Information Outlet with SMB (Cat-6)	1000					
14	Patch Cord – 1 Meter (3 feet) Cat-6a	1320					
15	Patch Cord – 2 Meter (7 feet) Cat-6a	1000					
16	UTP Cable (Cat-6 / Cat -6a) Per Meter (163 Boxes Approximate)	125000					
17	MK Channel 100:50	100 Meters					
18	1." PVC Conduit / Channel / Cable Tray (ISI)	2000 Meters					
19	1.5 "PVC Conduit / Channel / Cable Tray (ISI)	1000 Meters					

**Fiber Components for Backbone Connectivity**

1	50/125 (OM3) 6 Core Outdoor Multi Mode Optical Fiber Cable for 10G Support	3800					
2	19" rack mount terminating panel (1 RU height) with 6 SC couplers. (LIU Rack mounted)	30					
3	19" rack mount terminating panel (2 RU height) with 72 SC couplers (LIU Rack mounted)	3					
4	Multi Mode Fiber Patch Cord for 10G (3 Meter)	48					
5	Multi Mode Fiber SC Connector & Adopter for 10G	216					

**Services**

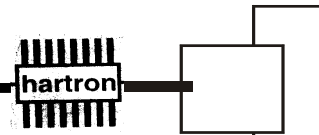
1	Laying of UTP cables (per meter)	125000					
2	Laying of Channel, Conduit (Per meter)	3100					
3	Testing & Certification UTP cabling (per node)	1000					
4	Fixing of SMB and Termination of cables in I/O (per Node)	1000					
5	Rack Fixing per unit (per unit)	156					
6	Patch Panel Fixing per unit (Per unit)	182					
7	Lying of Optical Fiber Cable including fixing, trenching etc. (per meter)	3800					
8	Termination & connectorization of fiber cables (Per Connector)	216					
9	Testing & Certification Fiber (Per Connector)	216					



10	Network Engineer on site for the period of 2 years	4						
11	Switch Boards with wiring (As Per Requirement)	19						
12	Digging & relieving of Hard Soil	Per Meter						
13	Digging & relieving of Soft Soil	Per Meter						
14	1 KVA Offline UPS System with 3 years warranty including batteries [as per Specification N]	19						
15	AMC for next 5 years after expiry of warranty period							

**NOTE:**

1. The rates quoted should be FOR destination.
2. The price quoted should be inclusive of all charges including all applicable taxes, Octroi, freight and handling charges, and all other miscellaneous expenses
3. In case of discrepancy between unit price and total price, the unit price will prevail.
4. The quoted rates should be inclusive of preparing of cable layout / diagram.
5. Charges for annual maintenance charges of the net hardware would become applicable after expiry of warranty period and would remain unchanged for the next 5 years after the warranty period expires
6. Price must be quoted for 3 years warranties.
7. The rates finalized will be valid for 90 days.
8. All the active components (Switches, Access Point, IP Controller etc.) & other offered requirement should be of the same make/ manufacture & should be covered under the same back-up guarantee from the same OEM, to ensure the full compatibility, inter-working & inter-operability.
9. All the passive components (Patch Cord, Cable, Patch Panel etc.) should also be of the same make / manufacture so that they should be covered under same back-up guarantee from the same OEM, to ensure the full compatibility, inter-working & inter-operability.
10. The Tenderer/Bidder shall mention the Item Model No./Part No. of each Active & Passive Components & submit the technical specification of each component.
11. The Arrangement/option/quantity may increase or decrease. The quantity of Passive components like conduit, cable etc. is tentative and may vary as per site requirement & will be paid extra as per actual consumption.
12. In case of any additional item like Switch, Jack Panel, Rack etc. is required the same be provided/installed by supplier after written confirmation by respective nodal officer at site.
13. Service Information Cards with details (Address of Service Center with nearest place to installation, phone no., engineer name etc.) be provided along with equipments.
14. The supplier shall furnish complete, well-fabricated and reliably operating and secure centralized systems as described in this document. Design and selection of equipment and Network Management Software shall be consistent with the requirements of long-term trouble free operation with highest degree of reliability and maintainability. All equipment shall be constructed to operate safely without undue heating, vibration, wear, corrosion,



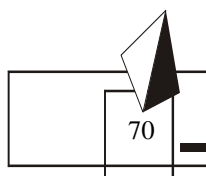
electromagnetic interference or similar problems and all software shall be proven, tested and reliable.

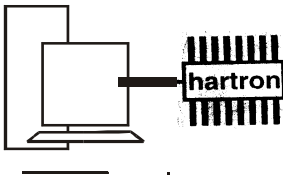
15. The successful bidder will be apprise the users for configuring their equipment / device to use the services.
16. The successful bidder is required to supply the latest updates, patches and upgrades of Network Management Software free of cost during the warranty period.
17. The successful bidder shall be responsible for connecting all the offices, blocks, classroom etc. as per the proposed defined connectivity & the network should be secured on a end-to-end basis
18. The successful bidder will be apprise the users for configuring their equipment / device to use the services.

(Signature of the bidder)

Name:  
Date:

Place:  
Seal





**ANNEXURE – 10**

**STATEMENT OF COMMERCIAL DEVIATION (S)**

Dear Sirs,

Following are the Commercial deviation(s) and variation(s) from the exceptions to the specifications and documents for the Bid document. These deviation(s) and variation(s) are exhaustive. Except these deviation(s) and variation(s), the entire work shall be performed as per your specifications and documents.

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Sl. No.	Section No.	Clause No.	Statement of deviation(s) and variation(s)
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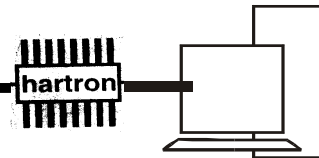
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(Signature of the bidder)

Name:  
Date:

Place:  
Seal



**ANNEXURE – 11**

**Declaration Regarding Clean Track Record**

To,

Managing Director,  
Haryana State Electronics Development Corporation Limited,  
SCO 111-113, Sector 17-B,  
Chandigarh.

Ref: Bid document No. Hartron/MSG/2011/..... dated .....

Sir,

I have carefully gone through the terms & conditions contained in the RFP Document [No. ....] regarding appointment of an agency for Design, Supply, Installation, Commissioning, and Maintenance & Operations of the LAN at Haryana Civil Secretariat, New Secretariat Haryana & 30 Bays Building LAN for a period of three years.

I hereby declare that my company has not been debarred / black listed by any Government / Semi Government organizations in India. I further certify that I am competent officer in my company to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address:

