

Government College of Technology, Coimbatore

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Government College of Technology
Coimbatore, Coimbatore District
Tamil Nadu-641 013 India

BID REFERENCE NO: TEQIP-II/TN/TN2G01/57

BID DOCUMENT

Sold to: M/s

Not Transferable

Principal, GCT, Coimbatore

NATIONAL COMPETITIVE BIDDING FOR THE SUPPLY OF SERVER,NODES AND HIGH SPEED SWITCHES,ROUTER,FIREWALL

UNDER TECHNICAL EDUCATION QUALITY IMPROVEMENT PROGRAMME PHASE II (TEQIP II)

**(A WORLD BANK ASSISTED PROJECT)
CREDIT NO. - CR. 4685-0 IN**

**NATIONAL COMPETITIVE BIDDING FOR THE SUPPLY OF
SERVER, NODES AND HIGH SPEED SWITCHES, ROUTER, FIREWALL**

BID REFERENCE : **TEQIP-II/TN/TN2G01/57**

**DATE OF COMMENCEMENT OF
SALE OF BIDDING DOCUMENT** : **22.11.2012 TIME: 10:00 Hrs**

DATE OF PRE BID MEETING : **30.11.2012 TIME : 15.00 Hrs**

**LAST DATE FOR SALE OF
BIDDING DOCUMENT** : **21.12.2012 TIME: 15:00 Hrs**

**LAST DATE AND TIME FOR
RECEIPT OF BIDS** : **21.12.2012; 16:00 Hrs**

**TIME AND DATE OF OPENING
OF BIDS** : **21.12.2012; 16:30 Hrs**

PLACE OF OPENING OF BIDS : **Conference Hall
Government College of Technology
Coimbatore-641013
Tamil Nadu, India**

ADDRESS FOR COMMUNICATION : **The Principal
Government College of Technology
Coimbatore-641013
Tamil Nadu, India**

SECTION I: INVITATION FOR BIDS (IFB)

**NATIONAL COMPETITIVE BIDDING FOR THE SUPPLY OF
SERVER,NODES AND HIGH SPEED SWITCHES,ROUTER,FIREWALL**

SECTION I. INVITATION FOR BIDS (IFB)

Date : 22.11.2012
Credit No. : Cr. 4685-0 IN
IFB No. : TEQIP-II/TN/TN2G01/57

1. The Government of India has received a Credit (Cr. 4685-0 IN) from the International Development Association in various currencies towards the cost of project_Technical Education Quality Improvement Programme[TEQIP]-Phase II (TEQIP II) and it is intended that part of the proceeds of this credit will be applied to eligible payments under the contracts for which this Invitation for Bids is issued.
2. For and on behalf of the **Governor of Tamilnadu, The Principal, Government College of Technology, Coimbatore, Coimbatore District** now invites sealed bids from eligible bidders for supply of **SERVER,NODESAND HIGH SPEED SWITCHES,ROUTER,FIREWALL** listed below:

Sr. No	Item Name	Quantity
1	SERVER,NODESAND HIGH SPEED SWITCHES,ROUTER,FIREWALL	1

3. Interested eligible Bidders may obtain further information from and inspect the bidding documents at the office of the **TEQIP CELL, Government College of Technology, Coimbatore, Coimbatore District, Tamil Nadu , India.**
4. A complete set of bidding documents may be purchased by any interested eligible bidder on the submission of a written application to the above office and upon payment of a non-refundable fee as indicated below in the form of a Demand Draft in favour of **The Principal, payable at Coimbatore.**
5. The provisions in the Instructions to Bidders and in the General Conditions of contract (GCC) are based on the provisions of the World Bank Standard Bidding Document - Procurement of Goods.
6. The bidding document may be obtained from the office of **TEQIP Cell , Government College of Technology, Coimbatore, Coimbatore District** during office hours namely, from **10:00 hrs to 16:30 hrs**, on all working days either in person or by post.
 - (a) Price of bidding document (non-refundable) : **Rs. 521 (Inclusive 4% VAT and 5% Surcharge)**
 - (b) Postal charges, inland : **Rs. 100**
 - (c) Date of commencement of sale of bidding document : **22.11.2012 TIME: 10:00 Hrs**
 - (d) Date of Pre Bid meeting : **30.11.2012 TIME 15:00 Hrs**
 - (e) Last date for sale of bidding document : **21.12.2012 TIME: 15:00 Hrs**
 - (f) Last date and time for receipt of bids : **21.12.2012 Time 16:00 Hours**

- (g) Time and date of opening of bids : **21.12.2012 Time 16:30 Hours**
- (h) Place of opening of bids : **Conference Hall, main building
GCT, Coimbatore**
- (i) Address for communication : **The Principal,
Government College of Technology
Coimbatore-641013
Tamil Nadu**

7. All bids must be accompanied by a bid security as specified in the bid document and must be delivered to the above office at the date and time indicated above.
8. Bids will be opened in the presence of Bidders' representatives who choose to attend on the specified date and time.
9. In the event of the date specified for bid receipt and opening being declared as a closed holiday for purchaser's office, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
10. **Bid documents purchased are not transferrable to any other bidder**

**The Principal
GCT, Coimbatore.**

SECTION II: INSTRUCTIONS TO BIDDER

SECTION II:
INSTRUCTIONS TO BIDDERS

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A. Introduction

1. Source of Funds

- 1.1 The Government of India has received a credit from the International Development Association (Here-in-after called as Bank) in various currencies equivalent to USD **300** million towards the cost of **Technical Education Quality Improvement Programme[TEQIP]-Phase II(TEQIP II)** and intends to apply part of the proceeds of this credit to eligible payments under the contracts for which this invitation for Bid is issued.
- 1.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the Credit Agreement, and will be subject in all respects to the terms and conditions of that agreement. The Credit Agreement prohibits a withdrawal from the Credit account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Credit Agreement or have any claim to the Credit proceeds.

2. Eligible Bidders

- 2.1 This Invitation for Bids is open to all suppliers from eligible source countries as defined in *Guidelines: Procurement under IDA Credits*, May 2004, revised October 2006 hereinafter referred as the *IDA Guidelines for Procurement*, except as provided hereinafter.
- 2.2 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.
- 2.3 Government-owned enterprises in the Purchaser's country may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Purchaser.
- 2.4 Bidders shall not be under a declaration of ineligibility for corrupt and fraudulent practices issued by the Bank in accordance with ITB Clause 36.1.

3. Eligible Goods and Services

- 3.1 All goods and ancillary services to be supplied under the Contract shall have their origin in eligible source countries, defined in the *IDA Guidelines for Procurement* and all expenditures made under the Contract will be limited to such goods and services.
- 3.2 For purposes of this clause, "origin" means the place where the goods are mined, grown, or produced or from which the ancillary services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 3.3 The origin of goods and services is distinct from the nationality of the Bidder.

4. Cost of Bidding

- 4.1 The Bidder shall bear all costs associated with the preparation and submission of its bid, and **The Principal, Government College of Technology, Coimbatore**, hereinafter referred to as "the Purchaser", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.
- 4.2 **The Purchaser is not responsible for any delay in delivery or non delivery of the Bid documents sent by post**

B. The Bidding Documents

5. Content of Bidding Documents

- 5.1 The goods required, bidding procedures and contract terms are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents include:

- (a) Instruction to Bidders (ITB) ;
- (b) General Conditions of Contract (GCC) ;
- (c) Special Conditions of Contract (SCC) ;
- (d) Schedule of Requirements;
- (e) Technical Specifications;
- (f) Bid Form and Price Schedules;
- (g) Bid Security Form;
- (h) Contract Form;
- (i) Performance Security Form;
- (j) Performance Statement Form;
- (k) Manufacturer's Authorization Form;
- (l) Bank Guarantee for Advance Payment Form; and
- (m) Equipment and Quality Control Form.

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

6. Clarification of Bidding Documents

- 6.1 A prospective Bidder requiring any clarification of the bidding documents may notify the Purchaser in writing or by telex or cable or fax at the Purchaser's mailing address indicated in the Invitation for Bids. The Purchaser will respond in writing to any request for clarification of the bidding documents which it receives no later than 15 days prior to the deadline for submission of bids prescribed by the Purchaser. Written copies of the Purchaser's response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective bidders which have received the bidding documents.

7. Amendment of Bidding Documents

- 7.1 At any time prior to the deadline for submission of bids, the Purchaser may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.
- 7.2 All prospective bidders who have received the bidding documents will be notified of the amendment in writing or by cable or by fax, and will be binding on them.
- 7.3 In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bids, the Purchaser, at its discretion, may extend the deadline for the submission of bids.

C. Preparation of Bids

8. Language of Bid

8.1 The bid prepared by the Bidder, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in English language. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant passages in the English language in which case, for purposes of interpretation of the Bid, the translation shall govern.

9. Documents Constituting the Bid

9.1 The bid prepared by the Bidder shall comprise the following components:

- (a) a Bid Form and a Price Schedule completed in accordance with ITB Clauses 10, 11 and 12;
- (b) documentary evidence established in accordance with ITB Clause 13 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted;
- (c) documentary evidence established in accordance with ITB Clause 14 that the goods and ancillary services to be supplied by the Bidder are eligible goods and services and conform to the bidding documents; and
- (d) bid security furnished in accordance with ITB Clause 15.

10. Bid Form

10.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.

11. Bid Prices

11.1 The Bidder shall indicate on the Price Schedule the unit prices and total bid prices of the goods it proposes to supply under the Contract.

11.2 Prices indicated on the Price Schedule shall be entered separately in the following manner:

- (i) the price of the goods, quoted (ex-works, ex-factory, ex-showroom, ex-warehouse, or off-the-shelf, as applicable), including all duties and sales and other taxes already paid or payable:
 - a. on components and raw material used in the manufacture or assembly of goods quoted ex-works or ex-factory; or
 - b. on the previously imported goods of foreign origin quoted ex-showroom, ex-warehouse or off-the-shelf.
- (ii) any Indian duties, sales and other taxes which will be payable on the goods if this Contract is awarded;
- (iii) the price for inland transportation, insurance and other local costs incidental to delivery of the goods to their final destination; and
- (iv) the price of other incidental services listed in Clause 8 of the Special Conditions of Contract.

11.3 The Bidder's separation of the price components in accordance with ITB Clause 11.2 above will be solely for the purpose of facilitating the comparison of bids by the Purchaser and will not in any way limit the Purchaser's right to contract on any of the terms offered.

11.4 Fixed Price. 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 rejected, pursuant to ITB Clause 24.

12. Bid Currencies

12.1 Prices shall be quoted in Indian Rupees:

13. Documents Establishing Bidder's Eligibility and Qualifications

- 13.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the Bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.
- 13.2 The documentary evidence of the Bidder's eligibility to bid shall establish to the Purchaser's satisfaction that the Bidder, at the time of submission of its bid, is from an eligible country as defined under ITB Clause 2.
- 13.3 The documentary evidence of the Bidder's qualifications to perform the Contract if its bid is accepted, shall establish to the Purchaser's satisfaction:
- (a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorized (as per authorization form in Section XII) by the goods' Manufacturer or producer to supply the goods in India.
 - (b) that the Bidder has the financial, technical, and production capability necessary to perform the Contract and meets the criteria outlined in the Qualification requirements specified in Section VI-A. To this end, all bids submitted shall include the following information:
 - (i) The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;
 - (ii) Details of experience and past performance of the bidder on equipment offered and on those of similar nature within the past three years and details of current contracts in hand and other commitments (suggested proforma given in Section XI);

14. Documents Establishing Goods' Eligibility and Conformity to Bidding Documents

- 14.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the Bidder proposes to supply under the contract.
- 14.2 The documentary evidence of the goods and services eligibility shall consist of a statement in the Price Schedule on the country of origin of the goods and services offered which shall be confirmed by a certificate of origin at the time of shipment.
- 14.3 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data, and shall consist of :
- (a) a detailed description of the essential technical and performance characteristics of the goods ;
 - (b) a list giving full particulars, including available sources and current prices, of spare parts, special tools, etc., necessary for the proper and continuing functioning of the goods for a period of two years, following commencement of the use of the goods by the Purchaser; and
 - (c) an item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.
- 14.4 For purposes of the commentary to be furnished pursuant to ITB Clause 14.3(c) above, the Bidder shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers designated by the Purchaser in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions ensure substantial equivalence to those designated in the Technical Specifications.

15. Bid Security

- 15.1 Pursuant to ITB Clause 9, the Bidder shall furnish, as part of its bid, a bid security in the amount as specified in Section-V - Schedule of Requirements.
- 15.2 The bid security is required to protect the Purchaser against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB Clause 15.7.
- 15.3 The bid security shall be denominated in Indian Rupees and shall:
- (a) at the bidder's option, be in the form of either a certified check, letter of credit, a demand draft, or a bank guarantee from a nationalized/Scheduled Bank located in India or by a reputable banking institution selected by the bidder and located abroad in any eligible country;
 - (b) be substantially in accordance with one of the form of bid security included in Section VIII or other form approved by the Purchaser prior to bid submission;
 - (c) be payable promptly upon written demand by the Purchaser in case any of the conditions listed in ITB Clause 15.7 are invoked;
 - (d) be submitted in its original form; copies will not be accepted; and
 - (e) remain valid for a period of 45 days beyond the original validity period of bids, or beyond any period of extension subsequently requested under ITB Clause 16.2.
- 15.4 Any bid not secured in accordance with ITB Clauses 15.1 and 15.3 above will be rejected by the Purchaser as non-responsive, pursuant to ITB Clause 24.
- 15.5 Unsuccessful bidder's bid securities will be discharged/returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity prescribed by the Purchaser, pursuant to ITB Clause 16.
- 15.6 The successful Bidder's bid security will be discharged upon the Bidder signing the Contract, pursuant to ITB Clause 34, and furnishing the performance security, pursuant to ITB Clause 35.
- 15.7 The bid security may be forfeited:
- (a) if a Bidder (i) withdraws its bid during the period of bid validity specified by the Bidder on the Bid Form; or (ii) does not accept the correction of errors pursuant to ITB Clause 24.2; or
 - (b) in case of a successful Bidder, if the Bidder fails:
 - (i) to sign the Contract in accordance with ITB Clause 34; or
 - (ii) to furnish performance security in accordance with ITB Clause 35.

16. Period of Validity of Bids

- 16.1 Bids shall remain valid for **90** days after the deadline for submission of bids prescribed by the Purchaser, pursuant to ITB Clause 19. A bid valid for a shorter period shall be rejected by the Purchaser as non-responsive.
- 16.2 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 cable or telex or fax). The bid security provided under ITB Clause 15 shall also be suitably extended. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request will not be required nor permitted to modify its bid, except as provided in ITB Clause 16.3 hereinafter.
- 16.3 In the case of fixed prices contracts, in the event that the Purchaser requests and the Bidder agrees to an extension of the validity period, the contract price, if the Bidder is selected for award shall be the bid price corrected as follows :

The price shall be increased by the **factor (B =10 % per Annum)** for each week or part of a week that has elapsed from the expiration of the initial bid validity to the date of notification of award to the successful Bidder.

- 16.4 Bid evaluation will be based on the bid prices without taking into consideration the above corrections.

17. Format and Signing of Bid

- 17.1 The Bidder shall prepare two copies of the bid, clearly marking each "Original Bid" and "Copy Bid", as appropriate. In the event of any discrepancy between them, the original shall govern.
- 17.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorized to bind the Bidder to the Contract. The latter authorization shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.
- 17.3 Any interlineations, erasures or overwriting shall be valid only if they are initialed by the persons or persons signing the bid.
- 17.4 The Bidder shall furnish information as described in the Form of Bid on commissions or gratuities, if any, paid or to be paid to agents relating to this Bid, and to contract execution if the Bidder is awarded the contract.

D. Submission of Bids

18. Sealing and Marking of Bids

- 18.1 The Bidders shall seal the original and each copy of the bid in separate inner envelopes, duly marking the envelopes as "original" and "copy". He shall then place all the inner envelopes in an outer envelope.
- 18.2 **The inner and outer envelopes shall:**
 - (a) be addressed to the Purchaser at the following address:
**The Principal/TEQIP Coordinator
Government College of Technology.,
Coimbatore-641013
Tamil Nadu**
 - (b) bear the Project Name, **Technical Education Quality Improvement Programme[TEQIP]-Phase II** the Invitation for Bids(IFB) title NCB for **SERVER,NODES AND HIGH SPEED SWITCHES,ROUTER,FIREWALL** and number **TEQIP-II/TN/TN2G01/57** , and a statement "Do not open before **16:30 Hrs on 21.12.2012.**"
- 18.3 The inner envelopes shall also indicate the name and address of the Bidder to enable the bid to be returned unopened in case it is declared "late".
- 18.4 If the outer envelope is not sealed and marked as required by ITB Clause 18.2, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.
- 18.5 Telex, cable or facsimile bids will be rejected.

19. Deadline for Submission of Bids

- 19.1 Bids must be received by the Purchaser at the address specified under ITB Clause 18.2 (a) no later than the time and date specified in the Invitation for Bids (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 upto the appointed time on the next working day.
- 19.2 The Purchaser may, at its discretion, extend this deadline for submission of bids by amending the bid documents in accordance with ITB Clause 7, 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.

20. Late Bids

- 20.1 Any bid received by the Purchaser after the deadline for submission of bids prescribed by the Purchaser, pursuant to ITB Clause 19, will be rejected and/or returned unopened to the Bidder.

21. Modification and Withdrawal of Bids

- 21.1 The Bidder may modify or withdraw its bid after the bid's submission, provided that written notice of the modification or withdrawal is received by the Purchaser prior to the deadline prescribed for submission of bids.
- 21.2 The Bidder's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of ITB Clause 18. A withdrawal notice may also be sent by telex or cable or fax but followed by a signed confirmation copy, post marked not later than the deadline for submission of bids.
- 21.3 No bid may be modified subsequent to the deadline for submission of bids.
- 21.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the bid form. Withdrawal of a bid during this interval may result in the Bidder's forfeiture of its bid security, pursuant to ITB Clause 15.7.

E. Bid Opening and Evaluation of Bids

22. Opening of Bids by the Purchaser

- 22.1 The Purchaser will open all bids, in the presence of Bidders' representatives who choose to attend, at **16:30 Hrs on 21.12.2012** and in the following location:

**Conference Hall
Government College of Technology,
Coimbatore -641013
Tamil Nadu, India**

The Bidders' representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of 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.

- 22.2 The bidders' names, bid modifications or withdrawals, bid prices, discounts, 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 pursuant to ITB Clause 20.
- 22.3 Bids (and modifications sent pursuant to ITB Clause 21.2) that are not opened and read out at bid opening shall not be considered further for evaluation, irrespective of the circumstances.
- 22.4 The Purchaser will prepare minutes of the bid opening.

23. Clarification of Bids

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

24. Preliminary Examination

- 24.1 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are generally in order. Bids from Agents, without proper authorization from the manufacturer as per Section XII, shall be treated as non-responsive.

24.1.1 Deleted.

- 24.2 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 there is a discrepancy between words and figures, the amount in words will prevail.

If the supplier does not accept the correction of errors, its bid will be rejected and its bid security may be forfeited.

- 24.3 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any Bidder.
- 24.4 Prior to the detailed evaluation, pursuant to ITB Clause 26, the Purchaser will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these Clauses, a substantially responsive bid is one which 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 Performance Security (GCC Clause 7), Warranty (GCC Clause 15), Force Majeure (GCC Clause 25), Limitation of liability (GCC Clause 29), Applicable law (GCC Clause 31), and Taxes & Duties (GCC Clause 33) 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.
- 24.5 If a bid is not substantially responsive, it will be rejected by the Purchaser and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

25. Deleted

26. Evaluation and Comparison of Bids

- 26.1 The Purchaser will evaluate and compare the bids which have been determined to be substantially responsive, pursuant to ITB Clause 24 for each schedule separately. No bid will be considered if the complete requirements covered in the schedule is not included in the bid. However, as stated in Para 11, Bidders are allowed the option to bid for any one or more schedules and to offer discounts for combined schedules. These discounts will be taken into account in the evaluation of the bids so as to determine the bid or combination of bids offering the lowest evaluated cost for the Purchaser in deciding award(s) for each schedule.
- 26.2 The Purchaser's evaluation of a bid will exclude and not take into account:
- (a) in the case of goods manufactured in India or goods of foreign origin already located in India, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;
 - (b) any allowance for price adjustment during the period of execution of the Contract, if provided in the bid.
- 26.3 Deleted.
- 26.4 The Purchaser's evaluation of a bid will take into account, in addition to the bid price (Ex-factory/ex-warehouse/off-the-shelf price of the goods offered from within India, such price to include all costs as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, and Excise duty on the finished goods, if payable) and price of incidental services, the following factors, in the manner and to the extent indicated in ITB Clause 26.5 and in the Technical Specifications:
- (a) cost of inland transportation, insurance and other costs within India incidental to the delivery of the goods to their final destination;
 - (b) delivery schedule offered in the bid;
 - (c) deviations in payment schedule from that specified in the Special Conditions of Contract;
 - (d) the cost of components, mandatory spare parts and service;
 - (e) the availability in India of spare parts and after-sales services for the goods / equipment offered in the bid;
 - (f) the projected operating and maintenance costs during the life of the equipment; and
 - (g) the performance and productivity of the equipment offered.

26.5 Pursuant to ITB Clause 26.4, one or more of the following evaluation methods will be applied:

(a) *Inland Transportation, Insurance and Incidentals:*

- (i) Inland transportation, insurance and other incidentals for delivery of goods to the final destination as stated in ITB Clause 11.2 (iii).

The above costs will be added to the bid price.

(b) *Delivery Schedule:*

- (i) The Purchaser requires that the goods under the Invitation for Bids shall be delivered at the time specified in the Schedule of Requirements. The estimated time of arrival of the goods at the project site should be calculated for each bid after allowing for reasonable transportation time. Treating the date as per schedule of requirements as the base, a delivery "adjustment" will be calculated for other bids at 2% of the ex-factory price including excise duty for each month of delay beyond the base and this will be added to the bid price for evaluation. No credit will be given to earlier deliveries and bids offering delivery beyond 2 months of stipulated delivery period will be treated as unresponsive.

(c) *Deviation in Payment Schedule:*

Deleted

(d) *Cost of Spare Parts:*

Deleted

(e) *Spare Parts and After Sales Service Facilities in India:*

The cost to the Purchaser of establishing the minimum service facilities and parts inventories, as outlined elsewhere in the bidding documents, if quoted separately, shall be added to the bid price.

(f) *Operating and Maintenance Costs:*

Deleted

(g) *Performance and Productivity of the Equipment:*

Deleted

27. Deleted.

28. Contacting the Purchaser

28.1 Subject to ITB Clause 23, 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 do so in writing.

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

F. Award of Contract

29. Post-qualification

- 29.1 In the absence of prequalification, the Purchaser will determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated responsive bid meets the criteria specified in ITB Clause 13.3 (b) and is qualified to perform the contract satisfactorily.
- 29.2 The determination will take into account the Bidder's financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB Clause 13, as well as such other information as the Purchaser deems necessary and appropriate.
- 29.3 An affirmative determination will be a prerequisite for award of the Contract to the Bidder. A negative determination will result in rejection of the Bidder's bid, in which event the Purchaser will proceed to the next lowest evaluated bid to make a similar determination of that Bidder's capabilities to perform the contract satisfactorily.

30. Award Criteria

- 30.1 Subject to ITB Clause 32, 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 lowest evaluated bid, provided further that the Bidder is determined to be qualified to perform the Contract satisfactorily.

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

- 31.1 The Purchaser reserves the right at the time of Contract award to increase or decrease by up to 15 percent of the quantity of goods and services originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

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

- 32.1 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 contract award, without thereby incurring any liability to the affected Bidder or bidders.

33. Notification of Award

- 33.1 Prior to the expiration of the period of bid validity, the Purchaser will notify the successful bidder in writing by registered letter or by cable/telex or fax, to be confirmed in writing by registered letter, that its bid has been accepted.
- 33.2 The notification of award will constitute the formation of the Contract.
- 33.3 Upon the successful Bidder's furnishing of performance security pursuant to ITB Clause 35, the Purchaser will promptly notify the name of the winning bidder to each unsuccessful Bidder and will discharge its bid security, pursuant to ITB Clause 15.
- 33.4 If, after notification of award, a Bidder wishes to ascertain the grounds on which its bid was not selected, it should address its request to the Purchaser. The Purchaser will promptly respond in writing to the unsuccessful Bidder.

34. Signing of Contract

- 34.1 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 Form provided in the bidding documents, incorporating all agreements between the parties.
- 34.2 Within 21 days of receipt of the Contract Form, the successful bidder shall sign and date the Contract and return it to the Purchaser.

35. Performance Security

- 35.1 Within 21 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 provided in the bidding documents or in another form acceptable to the Purchaser.
- 35.2 Failure of the successful bidder to comply with the requirement of ITB Clause 34.2 or ITB Clause 35.1 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 lowest evaluated bidder or call for new bids.

36 Corrupt or Fraudulent Practices

- 36.1 It is the Bank's policy that Borrowers (including beneficiaries of Bank loans), as well as Bidders, Suppliers, and Contractors, and their agents (whether declared or not), personnel, subcontractors, sub-consultants, service providers and suppliers under Bank-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts¹. In pursuance of this policy, the Bank:
- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice"² means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;
 - (ii) "fraudulent practice"³ means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;
 - (iii) "collusive practice"⁴ means a scheme or arrangement between two or more Bidders, with or without the knowledge of the borrower, designed to establish bid prices at artificial, non competitive levels; and
 - (iv) "coercive practice"⁵ means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;
 - (v) "Obstructive practice" is
 - (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and /or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or
 - (bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under sub – clause 36.1 (e) below.
 - (b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question;

¹ In this context, any action taken by a bidder, supplier, contractor, or any of its personnel, agents, subcontractors, sub-consultants, service providers, suppliers and/or their employees to influence the procurement process or contract execution for undue advantage is improper.

² "Another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

³ "Party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.

⁴ "Parties" refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non- competitive levels.

⁵ "Party" refers to a participant in the procurement process or contract execution.

- (c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur;
- (d) will sanction a firm or an individual, at any time, in accordance with prevailing Bank's sanctions procedures⁶, including by publically declaring such firm or individual ineligible, either indefinitely or for a stated period of time, (i) to be awarded a Bank-financed contract; and (ii) to be a nominated⁷ subcontractor, consultant, manufacturer or supplier, or service provider of and otherwise eligible firm being awarded a Bank-financed contract; and
- (e) will have the right to require that a provision be included in Bidding Documents and in contracts financed by a Bank loan, requiring Bidders, Suppliers, and Contractors and their sub-contractors to permit the Bank to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

36.2 Furthermore, Bidders shall be aware of the provision stated in sub-clause 24.1 (c) of the General Conditions of Contract.

⁶ A firm or an individual may be declared ineligible to be awarded a Bank-financed contract upon completion of the Bank's sanctions proceedings as per its sanctions procedures, including inter alia: (i) temporary suspension in connection with an ongoing sanctions proceeding; (ii) cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks; and (iii) the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption.

⁷ A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which either has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that are accounted for in the evaluation of the bidder's pre-qualification application or the bid; or (ii) appointed by the Borrower.

SECTION III: GENERAL CONDITIONS OF CONTRACT

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General Conditions of Contract

1. Definitions

1.1 In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein;
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- (c) "The Goods" means all the equipment, machinery, and/or other materials which the Supplier is required to supply to the Purchaser under the Contract;
- (d) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract;
- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "SCC" means the Special Conditions of Contract.
- (g) "The Purchaser" means the organization purchasing the Goods, as named in SCC.
- (h) "The Purchaser's country" is the country named in SCC.
- (i) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.
- (j) "The World Bank" means the International Bank for Reconstruction and Development (IBRD) or the international Development Association (IDA).
- (k) "The Project Site", where applicable, means the place or places named in SCC.
- (l) "Day" means calendar day.

2. Application

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

3. Country of Origin

3.1 All Goods and Services supplied under the Contract shall have their origin in the member countries and territories eligible under the rules of the World Bank as further elaborated in SCC.

3.2 For purposes of this Clause "origin" means the place where the Goods are mined, grown or produced, or from which the Services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

3.3 The origin of Goods and Services is distinct from the nationality of the Supplier.

4. Standards

- 4.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods' country of origin and such standards shall be the latest issued by the concerned institution.

5. Use of Contract Documents and Information

- 5.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.
- 5.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document or information enumerated in GCC Clause 5.1 except for purposes of performing the Contract.
- 5.3 Any document, other than the Contract itself, enumerated in GCC Clause 5.1 shall remain the property of the Purchaser and shall be returned (in all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

6. Patent Rights

- 6.1 The Supplier shall indemnify the Purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

7. Performance Security

- 7.1 Within 21 days of receipt of the notification of contract award, the Supplier shall furnish performance security in the amount specified in SCC.
- 7.2 The proceeds of the performance security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract
- 7.3 The Performance Security shall be denominated in Indian Rupees and shall be in one of the following forms:
- (a) A Bank guarantee or irrevocable Letter of Credit, issued by a nationalized/scheduled bank located in India or a bank located abroad acceptable to the Purchaser, in the form provided in the bidding documents or another form acceptable to the Purchaser; or
 - (b) A cashier's check, certified check, or demand draft.
- 7.4 The performance security will be discharged by the Purchaser and returned to the Supplier not later than 30 days following the date of completion of the Supplier's performance obligations, including any warranty obligations, unless specified otherwise in SCC.

8. Inspections and Tests

- 8.1 The Purchaser or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Purchaser. SCC and the Technical Specifications shall specify what inspections and tests the Purchaser requires and where they are to be conducted. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.
- 8.2 The inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data - shall be furnished to the inspectors at no charge to the Purchaser.

- 8.3 Should any inspected or tested Goods fail to conform to the specifications, the Purchaser may reject the goods and the Supplier shall either replace the rejected Goods or make alterations necessary to meet specification requirements free of cost to the Purchaser.
- 8.4 The Purchaser's right to inspect, test and, where necessary, reject the Goods after the Goods' arrival at Project Site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the Purchaser or its representative prior to the Goods shipment.
- 8.5 Nothing in GCC Clause 8 shall in any way release the Supplier from any warranty or other obligations under this Contract.

9. Packing

- 9.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in SCC and in any subsequent instructions ordered by the Purchaser.

10. Delivery and Documents

- 10.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified by the Purchaser in the Notification of Award. The details of shipping and/or other documents to be furnished by the supplier are specified in SCC.

11. Insurance

- 11.1 Transportation

12. Transportation

12.1 Deleted.

12.2 Deleted.

- 12.3 Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within India defined as Project site, transport to such place of destination in India including insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the Contract Price.

12.4 Deleted

13. Incidental Services

- 13.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:
- (a) performance or supervision of the on-site assembly and/or start-up of the supplied Goods;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
 - (c) furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
 - (e) training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods.

13.2 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

14. Spare Parts

14.1 As specified in the SCC, the Supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

- (a) such spare parts as the Purchaser may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) In the event of termination of production of the spare parts:
 - (i) advance notification to the Purchaser of the pending termination, in sufficient time to permit the Purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the Purchaser, the blueprints, drawings and specifications of the spare parts, if requested.

15. Warranty

15.1 The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and that they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for 24 months after the Goods or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract, unless specified otherwise in the SCC.

15.3 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.

15.4 Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Purchaser other than, where applicable, the cost of inland delivery of the repaired or replaced Goods or parts from ex-works or ex-factory or ex-showroom to the final destination.

15.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC, the Purchaser may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

16. Payment

16.1 The method and conditions of payment to be made to the Supplier under this Contract shall be specified in the SCC.

16.2 The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the Services performed, and by documents, submitted pursuant to GCC Clause 10, and upon fulfillment of other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the Purchaser but in no case later than sixty (60) days after submission of the invoice or claim by the Supplier.

16.4 Payment shall be made in Indian Rupees.

17. Prices

17.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Purchaser's request for bid validity extension, as the case may be.

18. Change Orders

18.1 The Purchaser may at any time, by written order given to the Supplier pursuant to GCC Clause 31, make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) the method of shipping or packing;
- (c) the place of delivery; and/or
- (d) the Services to be provided by the Supplier.

18.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the Purchaser's change order.

19. Contract Amendments

19.1 Subject to GCC Clause 18, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

20. Assignment

20.1 The Supplier shall not assign, in whole or in part, its obligations to perform under the Contract, except with the Purchaser's prior written consent.

21. Subcontracts

21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this Contract if not already specified in the bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the Contract.

21.2 Subcontracts must comply with the provisions of GCC Clause 3.

22. Delays in the Supplier's Performance

22.1 Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the Purchaser in the Schedule of Requirements.

22.2 If at any time during performance of the Contract, the Supplier or its sub-contractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Supplier shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the Supplier's time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

22.3 Except as provided under GCC Clause 25, a delay by the Supplier in the performance of its delivery obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 23, unless an extension of time is agreed upon pursuant to GCC Clause 22.2 without the application of liquidated damages.

23. Liquidated Damages

23.1 Subject to GCC Clause 25, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the Purchaser shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the Percentage specified in SCC. Once the maximum is reached, the Purchaser may consider termination of the Contract pursuant to GCC Clause 24.

24. Termination for Default

24.1 The Purchaser may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 22; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- (c) if the Supplier, in the judgment of the Purchaser has engaged in fraud and corruption, as defined in GCC Clause 34, in competing for or in executing the Contract.

24.2 In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 24.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

25. Force Majeure

25.1 Notwithstanding the provisions of GCC Clauses 22, 23, 24, the Supplier shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

25.2 For purposes of this Clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the Purchaser either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

25.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

26. Termination for Insolvency

26.1 The Purchaser may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser.

27. Termination for Convenience

27.1 The Purchaser, by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.

- 27.2 The Goods that are complete and ready for shipment within 30 days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
- (a) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

28. Settlement of Disputes

- 28.1 The Purchaser and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 28.2 If, after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.
- 28.2.1 Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract.
- 28.2.2 Arbitration proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.
- 28.3 Notwithstanding any reference to arbitration herein,
- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - (f) the Purchaser shall pay the Supplier any monies due the Supplier.

29. Limitation of Liability

- 29.1 Except in cases of criminal negligence or willful misconduct, and in the case of infringement pursuant to Clause 6,
- (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser; and
 - (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

30. Governing Language

- 30.1 The contract shall be written in English language. Subject to GCC Clause 30, English language version of the Contract shall govern its interpretation. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

31. Applicable Law

- 31.1 The Contract shall be interpreted in accordance with the laws of the Union of India.

32. Notices

- 32.1 Any notice given by one party to the other pursuant to this Contract shall be sent to other party in writing or by cable, telex or facsimile and confirmed in writing to the other Party's address specified in SCC.
- 32.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

33. Taxes and Duties

33.1 Deleted.

33.2 Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the Purchaser.

34. Fraud and Corruption

34.1 It is the Bank's policy that Borrowers (including beneficiaries of Bank loans), as well as Bidders, Suppliers, and Contractors, and their agents (whether declared or not), personnel, subcontractors, sub-consultants, service providers and suppliers under Bank-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts⁸. In pursuance of this policy, the Bank:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice"⁹ means the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the procurement process or in contract execution;

(ii) "fraudulent practice"¹⁰ means a misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract;

(iii) "collusive practice"¹¹ means a scheme or arrangement between two or more Bidders, with or without the knowledge of the borrower, designed to establish bid prices at artificial, non competitive levels; and

(iv) "coercive practice"¹² means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the procurement process or affect the execution of a contract;

(v) "Obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and /or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation, or

(bb) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under sub – clause 34.1 (e) below.

(b) will reject a proposal for award if it determines that the Bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for the Contract in question;

⁸ In this context, any action taken by a bidder, supplier, contractor, or any of its personnel, agents, subcontractors, sub-consultants, service providers, suppliers and/or their employees to influence the procurement process or contract execution for undue advantage is improper.

⁹ "Another party" refers to a public official acting in relation to the procurement process or contract execution. In this context, "public official" includes World Bank staff and employees of other organizations taking or reviewing procurement decisions.

¹⁰ "Party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.

¹¹ "Parties" refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non- competitive levels.

¹² "Party" refers to a participant in the procurement process or contract execution.

- (c) will cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur;
- (d) will sanction a firm or an individual, at any time, in accordance with prevailing Bank's sanctions procedures¹³, including by publically declaring such firm or individual ineligible, either indefinitely or for a stated period of time, (i) to be awarded a Bank-financed contract; and (ii) to be a nominated¹⁴ subcontractor, consultant, manufacturer or supplier, or service provider of and otherwise eligible firm being awarded a Bank-financed contract; and
- (e) will have the right to require that a provision be included in Bidding Documents and in contracts financed by a Bank loan, requiring Bidders, Suppliers, and Contractors and their sub-contractors to permit the Bank to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

34.2 Furthermore, Bidders shall be aware of the provision stated in sub-clause 24.1 (c) of the General Conditions of Contract.

¹³ A firm or an individual may be declared ineligible to be awarded a Bank-financed contract upon completion of the Bank's sanctions proceedings as per its sanctions procedures, including inter alia: (i) temporary suspension in connection with an ongoing sanctions proceeding; (ii) cross-debarment as agreed with other International Financial Institutions, including Multilateral Development Banks; and (iii) the World Bank Group corporate administrative procurement sanctions procedures for fraud and corruption.

¹⁴ A nominated sub-contractor, consultant, manufacturer or supplier, or service provider (different names are used depending on the particular bidding document) is one which either has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that are accounted for in the evaluation of the bidder's pre-qualification application or the bid; or (ii) appointed by the Borrower.

SECTION IV: SPECIAL CONDITIONS OF CONTRACT

SECTION IV
SPECIAL CONDITIONS OF CONTRACT

TABLE OF CLAUSES

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Special Conditions of Contract

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract. The corresponding clause number of the General Conditions is indicated in parentheses.

1. Definitions (GCC Clause 1)

- (a) The Purchaser is **Principal, Government College of Technology, Coimbatore-641013, Tamil Nadu, India**
- (b) The Supplier is :

2. Country of Origin (GCC Clause 3)

All countries and territories as indicated in Section XIV of the bidding documents, "Eligibility for the Provisions of Goods, Works, and Services in Bank-Financed Procurement".

3. Performance Security (GCC Clause 7)

- 3.1 Within 21 days after the Supplier's receipt of Notification of Award, the Supplier shall furnish Performance Security to the Purchaser for an amount of 5% of the contract value, valid upto 60 days after the date of completion of performance obligations including warranty obligations.

In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12 months and the Performance Bank Guarantee for proportionate value shall be extended 60 days over and above the extended warranty period.

- 3.2 Substitute Clause 7.3 (b) of the GCC by the following:

A cashier's cheque or banker's certified cheque or crossed demand draft or pay order drawn in favour of **The Principal, Government College of Technology, at Coimbatore issued by any nationalized/scheduled bank in India.**

- 3.3 Substitute Clause 7.4 of the GCC by the following:

The Performance Security will be discharged by the Purchaser and returned to the Supplier not later than 60 days following the date of completion of the Supplier's performance obligations, including the warranty obligation, under the contract.

- 3.4 Add as Clause 7.5 to the GCC the following:

In the event of any contract amendment, the Supplier shall, within 21 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for 60 days after the completion of performance obligations including warranty obligations.

4. Inspection and Tests (GCC Clause 8)

The following inspection procedures and tests are required by the Purchaser:

(i) The inspection of the Goods shall be carried out to check whether the Goods are in conformity with the technical specifications attached to the contract and shall be in line with the inspection/test procedures laid down in the Technical Specifications and the General Conditions of contract. Following broad test procedure will generally be followed for inspection and testing of machine.

- The supplier will dispatch the goods to the ultimate consignee after internal inspection testing along with the supplier's inspection report and manufacturer's warranty certificate.
- The purchase will test the equipment after completion of the installation and commissioning at the site of the installation.
- For site preparation, the supplier should furnish all details to the purchaser sufficiently in advance so as to get the works completed before receipt of the equipment.
- Complete items/ accessories as specified in Section V should be supplied, installed and commissioned properly by the supplier prior to commencement of performance test.

(ii) The acceptance test will be conducted by the purchaser/their consultant or any other person nominated by the purchaser, at its option. There shall not be any additional charges for carrying out acceptance tests. The supplier shall maintain necessary log in respect of the results of the tests to establish to the entire satisfaction of the purchaser, the successful completion of the test specified.

(iii) In the event of the equipments failing to pass the acceptance test, a period not exceeding four weeks will be given to rectify the defects and clear the acceptance test, failing which the purchaser reserves the rights to get the equipment replaced by the supplier at no extra cost to the purchaser.

5. **Packing (GCC Clause 9)**

Add as Clause 9.3 of the GCC the following:

Packing Instructions : The Supplier will be required to make separate packages for each Consignee. Each package will be marked on three sides with proper paint/indelible ink, the following:

i) Project ii) Contract No. iii) Country of Origin of Goods iv) Supplier's Name, and v) Packing list reference number.

6. **Delivery and Documents (GCC Clause 10)**

Upon delivery of the Goods, the supplier shall notify the purchaser and the insurance company by cable/telex/fax the full details of the shipment including contract number, railway receipt number and date, description of goods, quantity, name of the consignee etc. The supplier shall mail the following documents to the purchaser with a copy to the insurance company:

- (i) 4 Copies of the Supplier invoice showing contract number, goods' description, quantity, unit price, total amount;
- (ii) Railway receipt/acknowledgment of receipt of goods from the consignee(s);
- (iii) 4 Copies of packing list identifying the contents of each package;
- (iv) Insurance Certificate ;
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection Certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and
- (vii) Certificate of Origin.

The above documents shall be received by the Purchaser before arrival of the Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the Supplier will be responsible for any consequent expenses.

7. **Insurance (GCC Clause 11)**

For delivery of goods at site, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "warehouse to warehouse" (final destinations) on "All Risks" basis including War Risks and Strikes.

8. **Incidental Services (GCC Clause 13)**

The following services covered under Clause 13 shall be furnished and the cost shall be included in the contract price:

- a. Performance of the onsite assembly, commissioning and start-up of the equipment.
- b. Furnishing the detailed operation and maintenance manuals for each items of the supply at each location.
- c. Training the purchaser personnel at the suppliers office or other facility, in the installation and operation of the equipment.
- d. Maintenance and repair of the equipment at each location during the warranty period including supply of all spares. This shall not relieve the supplier of any warranty obligation under this contract.
- e. Maintenance and/or repairs of the supplied goods for a period of three years after the end of warranty period.
The bidder should indicate the spares and their costs, if any, which are not indicated in the maintenance contracts.

9. Spare Parts (GCC Clause 14)

Add as Clause 14.2 to the GCC the following:

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods, such as gaskets, plugs, washers, belts etc. Other spare parts and components shall be supplied as promptly as possible but in any case within six months of placement of order.

10. Warranty (GCC Clause 15)

(i) G.C.C. Clause 15.2:

In partial modification of the provisions, the warranty period shall be 24 months from date of acceptance of Goods. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion either:

(a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 4 ;

(ii) Substitute Clause 15.4 of the GCC by the following:

“Upon receipt of such notice, the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, free of cost at the ultimate destination. The Supplier shall take over the replaced parts/goods at the time of their replacement. No claim whatsoever, shall lie on the Purchaser for the replaced parts/goods thereafter.

In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12 months.”

(iii) GCC Clauses 15.4 and 15.5:

The period for correction of defects in the warranty period is 20 days.

11. Payment (GCC Clause 16)

Payment for Goods and Services shall be made in Indian Rupees as follows:

Advance Payment : No advance payment

On Delivery : No payment on delivery

On Final Acceptance : 100 percent of the Contract Price shall be paid to the supplier within 30 days after the date_of the acceptance certificate issued by the Purchaser’s representative for the respective delivery.

12. Prices (GCC Clause 17)

12.1 Prices payable to the supplier as stated in the contract shall be firm during the performance of the contract.

13. Sub-contracts (GCC Clause 21)

Add at the end of GCC sub-clause 21.1 the following:

Sub-contract shall be only for bought-out items and sub-assemblies

14. Liquidated Damages (GCC Clause 23)

14.1 For delays :

GCC Clause 23.1 -- The applicable rate is 0.07% per week and the maximum deduction is 10% of the contract price.

15. Settlement of Disputes (Clause 28)

The dispute settlement mechanism to be applied pursuant to GCC Clause 28.2.2 shall be as follows:

(a) In case of Dispute or difference arising between the Purchaser and a domestic supplier relating to any matter arising out of or connected with this agreement, such disputes or difference shall be settled in

accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of 3 arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties and shall act as Presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the Indian Council of Arbitration.

- (b) In the case of a dispute with a Foreign Supplier, the dispute shall be settled in accordance with provisions of UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules. The Arbitral Tribunal shall consist of three Arbitrators one each to be appointed by the Purchaser and the Supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the Parties, and shall act as presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the Indian Council of Arbitration.
- (c) If one of the parties fails to appoint its arbitrator in pursuance of sub-clause (a) and (b) above, within 30 days after receipt of the notice of the appointment of its arbitrator by the other party, then the Indian Council of Arbitration both in cases of the Foreign supplier as well as Indian supplier, shall appoint the arbitrator. A certified copy of the order of the Indian Council of Arbitration making such an appointment shall be furnished to each of the parties.
- (d) Arbitration proceedings shall be held at **Principal's Conference Hall** India, and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.
- (e) The decision of the majority of arbitrators shall be final and binding upon both parties. The cost and expenses of Arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its proceedings as also the fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself.
- (f) Where the value of the contract is Rs. 10 million and below, the disputes or differences arising shall be referred to the Sole Arbitrator. The Sole Arbitrator should be appointed by agreement between the parties; failing such agreement, by the appointing authority namely the Indian Council of Arbitration.

16. Notices (Clause 32)

For the purpose of all notices, the following shall be the address of the Purchaser and Supplier.

Purchaser : **The Principal,
Government College of Technology,
Coimbatore-641013**

Supplier: (To be filled in at the time of Contract signature)

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17. Progress of Supply

Supplier shall regularly intimate progress of supply, in writing, to the Purchaser as under:

- Quantity offered for inspection and date;
- Quantity accepted/rejected by inspecting agency and date;
- Quantity despatched/delivered to consignees and date;
- Quantity where incidental services have been satisfactorily completed with date;
- Quantity where rectification/repair/replacement effected/completed on receipt of any communication from consignee/Purchaser with date
- Date of completion of entire Contract including incidental services, if any; and
- Date of receipt of entire payments under the Contract
(in case of stage-wise inspection, details required may also be specified).

SECTION V: SCHEDULE OF REQUIREMENTS

SCHEDULE OF REQUIREMENTS

Schedule No	Brief Description	Unit price in Rupees	Quantity	Delivery Schedule	Bid Security in Rupees
1	SERVER,NODES AND HIGH SPEED SWITCHES, ROUTER, FIREWALL		1	To be delivered within TWO Months from the date of award of contract by the Principal, Government College of Technology., Coimbatore.	120000

SECTION VI: TECHNICAL SPECIFICATIONS

**SECTION VI – TECHNICAL SPECIFICATIONS
SERVER,NODES AND HIGH SPEED SWITCHES, ROUTER, FIREWALL**

Firewall Specifications: Qty 1 No.

Sr. No	Features	Specifications
1	Architecture	The Firewall must be appliance based and should facilitate multi-application environment.
		It should be modular to accommodate future growth.
		The Firewall should be ICSA Labs certified for ICSA 4.0 and EAL 4+ certified, if not the same model
		The platform should be based on realtime, secure embedded operating system
		The platform should use ASIC hardware that is optimized for packet and application level content processing
		Should provide a unified management console for managing and configuring various components of the UTM appliance
		Support for atleast a minimum 10 virtual firewalls. Please mention what is the maximum number of virtual firewalls supported
		Should support IPv6 traffic
		Should support automatic ISP failover as well as ISP load sharing for outbound traffic
		2
The Firewall should support throughputs of minimum 16 Gbps for both 512 byte packet and 64 byte packet - Should be scalable with additional modules		
The firewall should support a minimum of atleast 6 Gbps of AES VPN Throughput and should be hardware accelerated		
should support atleast 20,00,000 concurrent session		
Should support atleast 50,000 new session per second		
Should support and IPS throughput of atleast 3 GBPS		
Should support and GAV throughput of atleast 1 GBPS		
Should support atleast 10000 Gateway to Gateway VPN		
Should support atleast 4096 VLAN		
Should support atleast 64 Gb of SSD of local Storage		
3	Interface and Connectivity Requirements:	
		The Security appliance should have atleast 16 nos of 10/100/1000Copper interfaces
		The Security appliance should have atleast 4 nos of 10/100/1000 fiber SFP interfaces
		The Security appliance should have atleast 2 pairs of 10/100/1000 bypass interfaces

		The Security appliance should have atleast 2 nos of USB interfaces for 3G Data Card support & System Management
		The platform should support VLAN tagging (IEEE 802.1q)
4	<i>Layer 2 / 3 Requirements:</i>	
		The Firewall should support IEEE 802.1q VLAN Tagging with about 4096 VLANs supported (in NAT/Route mode)
		Static routing must be supported.
		Policy based Routing must be supported
		RIPv1 and RIPv2 routing must be supported.
		The Firewall should support OSPF & BGP4
		The device should support multicast routing
5	<i>Firewall Features Requirement:</i>	
		It should be possible to operate the firewall in a "stealth mode" or "bridging" or "transparent mode".
		The Firewall should also support the standard Layer 3 mode of configuration with Interface IP's
		All internet based applications should be supported for filtering like Telnet, FTP,SMTP, HTTP, DNS, ICMP, DHCP, RPC,SNMP, BGP, IMAP, NFS etc
		Firewall should support Voice based protocols like H.323, SIP etc
		The Firewall should support authentication protocols like LDAP, RADIUS and have support for firewall passwords, token-based products like SecurID, RADIUS & TACACS+ authentication servers and digital certificates and should support Single-sign On when integrated with Windows Active Directory.
		Should support DHCP server & DHCP Agent functionality
		Should support IPv6 ACL to implement security Policy for IPv6 traffic
		The firewall will have to provide QoS services to ensure guaranteed bandwidth for mission critical traffic/ application
		Should support IP Multicast to support secure real time multicast application which will have to pass through the firewall as well as multicast routing
		The security appliance should be able to protect the port 80 misuse to block application such as instant messaging client like yahoo messenger and MSN messenger etc
		Should be able to block popular peer to peer , social networking, web based mail applications and sites.
		Should be able to inspect HTTP and FTP traffic when these are deployed using non standard port i.e when HTTP is not using port TCP/80 and FTP is not using port TCP/21
		Should support the following SIP Security services ability to secure both UDP and TCP based SIP environments'. NAT & PAT based address translation support for SIP phones
		Should support inspection of H.323 and SIP voice traffic that has been fragmented

6	<i>Encryption / VPN Requirements</i>	
		The IPSEC VPN and SSL VPN capability shall minimally attain Internet Computer Security Association (ICSA)
		The proposed system shall comply/support industry standards, supports without additional external solution, hardware or modules:
		a) IPSEC VPN
		b) SSL VPN
		The device shall utilize inbuilt hardware VPN acceleration:
		a) IPSEC (DES, 3DES, AES) encryption/decryption
		b) SSL encryption/decryption
		c) The system shall support the following IPSEC VPN capabilities:
		d) Multi-zone VPN supports.
		e) IPSec, ESP security.
		f) Supports Aggressive and Dynamic mode
		g) Hardware accelerated encryption using IPSEC, DES, 3DES, AES
		h) Support perfect forward secrecy group 1 and group 2 configuration
		i) MD5 or SHA1 authentication and data integrity.
		j) Automatic IKE (Internet Key Exchange) and Manual key exchange.
		k) Supports NAT traversal
		l) Supports Extended Authentication
		m) Supports Hub and Spoke architecture
		n) Supports Redundant gateway architecture
		o) DDNS support
		The system shall support IPSEC and PPTP VPN pass through so that computers or subnets on internal network can connect to a VPN gateway on the Internet.
		The system shall support IPSEC site-to-site VPN and remote user VPN in transparent mode.
8	SSL VPN	
		should be integrated solution and there should be no user based licensing for SSL VPN.
		Web-only mode: for thin remote clients equipped with a web browser only and support web application such as:HTTP/HTTPS PROXY, FTP, SMB/CIFS, SSH, VNC, RDP
		Tunnel mode, for remote computers that run a variety of client and server applications
		The system shall be capable of enforcing host checking prior to SSL tunnel mode connections:
		a) Check vendor's AV Installed, Running and up-to-date signatures
		b) Check vendor's FW Installed and Running
		c) Check for Third Party AV Software

		d) Check for Third Party Firewall Software
		e) Requirement for Virtual Desktop Connection
9	<i>Network IPS:</i>	
		The IPS capability shall minimally attain Internet Computer Security Association (ICSA) NIPS Certification
		Should have a built-in Signature and Anomaly based IPS engine on the same unit
		Able to prevent denial of service and Distributed Denial of Service attacks.
		Signature based detection using real time updated database
		Anomaly based detection that is based on thresholds
		Administrator shall be able to configure DoS policies that are used to associate DoS settings with traffic that reaches an interface based on defined services, source and destinations IP/Range.
		The device shall allow administrators to create Custom IPS signatures
		IPS Signatures can be updated in three different ways: manually, via pull technology or push technology. Administrator can schedule to check for new updates or if the device has a public IP address, updates can be pushed to the device each time an update is available.
		Configurable IPS filters to selectively implement signatures based on severity, target (client/server), protocol, OS and Application types.
		Supports automatic security updates directly over the internet. (ie no dependency of any intermediate device)
		Security check updates do not require reboot of the unit.
		Supports attack recognition inside IPv6 encapsulated packets.
		Supports user-defined signatures with Regular Expressions.
		Supports several prevention techniques including drop-packet, tcp-rst (Client, Server & both) etc. List all prevention options
10	<i>Gateway Antivirus</i>	
		The Antivirus capability shall minimally attain Internet Computer Security Association (ICSA) AV Certification
		The proposed system should be able to block, allow or monitor only using AV signatures and file blocking based on per firewall policy based or based on firewall authenticated user groups with configurable selection of the following services:
		a) HTTP and HTTPS
		b) SMTP and SMTPS
		c) POP3 and POP3S
		d) IMAP
		e) Instant Messenger (AIM, YAHOO!, MSN, ICQ, SIMPLE)
		f) NNTP
		The proposed system shall provide ability to allow, block and intercept (allow but quarantine) attachments or downloads according to file extensions and/or file types
		AV Signatures can be updated in three different ways: manually, via pull technology or push technology. Administrator can schedule to check for new updates or if the device has a public IP address, updates can be pushed to the device each time an update is available.
		The AV solution shall be able to quarantine blocked and infected files to either local hard disk or externally.

		The proposed system should be able to block or allow oversized file based on configurable thresholds for each protocol types and per firewall policy.
		The solution should be capable scanning Encrypted VPN tunnel traffic originating from the unit for virus
11	<i>Web Content Filtering</i>	
		The proposed system should have integrated Web Content Filtering solution without external solution, devices or hardware modules.
		URL database should have at least 50 million + sites and 75+ categories.
		The proposed solution should be able to enable or disable Web Filtering per firewall policy or based on firewall authenticated user groups for both HTTP and HTTPS traffic.
		The proposed system shall provide web content filtering features:
		a) which blocks web plug-ins such as ActiveX, Java Applet, and Cookies.
		b) Shall include Web URL block
		c) Shall include score based web keyword block
		d) Shall include Web Exempt List
		The proposed solution should be able to replace the web page when the web page matches the Web Filtering blocking criteria.
		The proposed solution shall be able to identify, retrieve and rate the actual URL of the cache content commonly available in search engines such as Yahoo and Google.
		The proposed solution shall be able to identify, retrieve and rate the image files from image search engines. If belongs to a blocked category, image will be replaced by a blank.
		The proposed solution shall be able to identify, retrieve and rate the multimedia files from multimedia, video & Audio search engines. If belongs to a blocked category, content will be replaced by a blank. For example, a YouTube component will be blanked while retaining the rest of the content in a webpage.
		The solution shall allow administrators to create multiple new local URL filtering categories besides dynamic categories
		The solution shall allow administrators to override Online URL Database ratings with local settings
		Many web sites use HTTP redirects legitimately; however, in some cases, redirects may be designed specifically to circumvent web filtering, as the initial web page could have a different rating than the destination web page of the redirect. The solution shall be able to rate redirected sites.
		The solution shall be capable of rating URLs by domain and IP address which sends both the URL and the IP address of the requested site for checking, providing additional security against attempts to bypass the rating system.
12	<i>AntiSPAM</i>	
		The proposed system shall have the ability to provide antispam capabilities over SMTP, POP3 & IMAP without external solution, devices or hardware modules.
		The antispam solution shall have the capabilities to use the following techniques:
		Subscription based inhouse IP address black list, URL black list and checksum database
		IP address BWL
		DNSBL & ORDBL check

		MIME headers check
		Score based banned word check on email subject & body
		External DNSBL
13	<i>High Availability Requirements</i>	
		The Proposed system must support the optional Dual AC Power supply
		The proposed system shall have built-in high availability (HA) features without extra cost/license or hardware component
		The firewall must support Active-Active as well as Active-Passive redundancy
		The Firewall must support stateful clustering of multiple active firewalls, and the firewalls must load balance the traffic between them to share the load.
		The cluster should support uninterrupted fireware upgrade for the cluster.
		The HA clustering technique shall allow clustering of up to four units for increased reliability and performance. Various load-balancing algorithms are available to take best advantage of different clustering configurations, such as: Round Robin, Weighted Round Robin, Least connections
14	System Management Requirement	
		Be proprietary to prevent inheriting common OS vulnerabilities
		Resided on flash disk for reliability over hard disk
		Allow dual booting
		Upgradeable via Web UI or TFTP
		The administrator authentication shall be facilitated by local database, PKI & remote services such as Radius, LDAP and TACAS+
		The system shall support profile base login account administration, offering gradual access control such as only to Policy Configuration & Log Data Access
		The proposed system shall be able to limit remote management access from certain trusted network or host with corresponding administrator account
		The proposed system should be able to facilitate administration audits by logging detailed activities to event log - management access and also configuration changes.
15	Logging and Reporting	
		The centralized logging reporting solution should preferably hardware appliance based, If not then it should be a software based with complete required hardware and solution should support minimum 50 firewall appliances
		Should have secure connectivity between firewall appliances and log analysis appliance, It should have at least 4 10/100/1000 ports.
		The solution should generate the reports for the Firewall , IPS, AV, web content filtering, VPN etc
		Should have provision for Real-Time Traffic Viewer as well as Historical Traffic Viewer
		The logs should be Searchable & the log format must be customizable

		The solution shall have readymade templates to generate reports like complete reports or attack reports, bandwidth report, intranet report
		The solution should help to analyze/understand Attacks over various protocols like http, ftp, SMTP, POP3 and IMAP as well as to sources and destination for these attacks.
		Capability to quarantine AV files
		The solution should help to analyze/understand the security breaches hacker attacks and the sources and destination for these attacks
		The solution should help to analyze/understand the protocol and bandwidth usage by users to help in capacity planning and understand network utilization
		should have options to generate reports in terms of which are the frequent attacks as well as top sources and destination for attacks
		Should have options to generate reports in different formats like html, pdf, ms word etc..
		The solution should have configurable options to send the reports as a mail to the designated email address or to ftp to the configured ftp location
		should have configurable parameters to send alert emails based on event type or attack type or total number of attacks)
		Should have configurable parameters to set alert thresholds (eg. If same event/attack occurs more than 5 times within an hrs time)
		The solution should have configurable options to schedule the report generation (eg. hourly, daily, weekly etc.)
		The solution should be running its own syslog server to collect the logs
		The solution should also have the option to generate reports based on the logs collected from multiple firewalls
		Should have options to create users with different access rights (eg. users who can only view reports, users who can create schedules and reports etc)
		The licensing for the solution should be per device
		Should have the facility to archive the real payload(actual content) of E-mail, IM, HTTP traffic which is passing through the security appliances like IPS/firewall etc
		Solution should support log uploading via FTP/SFTP/SCP at scheduled configurable time to a external storage to ensure log availability.

Core Switch : Qty 1 No

- 1.1. Port Density
 - 1.1.1. 24 * SFP Slots with Min 2 * SFP+ ports for 100/1000/10G connectivity and should be scalable to another 2 * SFP+ ports by adding line cards.
 - 1.1.2. Should support Active – Active Clustering VSS technologie or équivalent for high availability and qucik resiliency.
 - 1.1.3. The Switch Should support Long distance VSS or equivalent technology for physically diversified locations up to 10 Kms.
- 1.2. Performance
 - 1.2.1. Forwarding Rate: 101Mpps, Switching Fabric: 136 Gbps
 - 1.2.2. Extensive wire-speed traffic classification for ACLs and QoS
 - 1.2.3. Supports 9KB Jumbo frame
 - 1.2.4. Up to 32K MAC addresses
 - 1.2.5. 4K VLANs
 - 1.2.6. Min 512MB DDR SDRAM or better, Min 64MB Flash Memory or better
 - 1.2.7. Modular operating system, Redundant Power Supply option
 - 1.2.8. VLAN Double Tagging
 - 1.2.9. Full environmental monitoring of PSUs, fans, temperature and internal voltages, with SNMP traps to alert network managers in case of any failure
- 1.3. Full Layer 3 Routing Support
 - 1.3.1. RIP, OSPF, RIPng
 - 1.3.2. Route Maps
 - 1.3.3. Route Redistribution (OSPF, BGP, RIP)
 - 1.3.4. RFC 1058 Routing Information Protocol (RIP), RFC 2080 RIPng for IPv6
 - 1.3.5. RFC 2453 RIPv2
 - 1.3.6. IPv6 switching and routing in hardware
- 1.4. Resiliency
 - 1.4.1. STP, RSTP, MSTP (802.1s)
 - 1.4.2. Link Aggregation (802.3ad LACP) – at least 31 groups
 - 1.4.3. VRRP .
 - 1.4.4. The switch should support for sub <50msec ring convergence, optimized for video or voice traffic as per IEEE 802.17 or equivalent.
 - 1.4.5. Loop Detection
 - 1.4.6. Loop prevention
 - 1.4.7. Dynamic Link Failover
 - 1.4.8. STP Root Guard
 - 1.4.9. IEEE 802.1D Spanning Tree Protocol (STP) - MAC Bridges
 - 1.4.10. IEEE 802.1s Multiple Spanning Tree Protocol (MSTP)
 - 1.4.11. IEEE 802.1t - 2001 802.1D maintenance
 - 1.4.12. IEEE 802.1w - 2001 Rapid Spanning Tree Protocol (RSTP)
 - 1.4.13. RFC 3768 Virtual Router Redundancy Protocol (VRRP)
 - 1.4.14. RFC 3176 sFlow
 - 1.4.15. CDP or LLDP or equivalent
- 1.5. Security
 - 1.5.1. Private VLANs
 - 1.5.2. Should support in Built Radius server , if not supported vendors should propose for RADIUS server for 1000 end points scalable to 5000 end points.
 - 1.5.3. Dynamic VLAN assignment
 - 1.5.4. Open standard NAC
 - 1.5.5. 802.1x support
 - 1.5.6. MAC-based authentication
 - 1.5.7. Web-based authentication
 - 1.5.8. Multi-supplicant

- 1.5.9. BPDU guard
- 1.5.10. STP Root Guard
- 1.5.11. DOS attack blocking
- 1.5.12. ACLs
- 1.5.13. Vendors should propose for Radius server to support min of 100Users scalable to 5000 Users to authenticate the users based on Users, 802.1X Device authentication and Mac based authentication with Captive portal support
- 1.5.14. BPDU Protection
- 1.5.15. Dynamic VLAN Assignment
- 1.5.16. Guest VLAN support (IEEE 802.1x)
- 1.5.17. IEEE 802.1x Port Based Network Access Control
- 1.5.18. IEEE 802.1x Authentication protocols (TLS, TTLS, PEAP & MD5)
- 1.5.19. IEEE 802.1x Multi Supplicant authentication
- 1.5.20. MAC-based authentication
- 1.5.21. Port Security
- 1.5.22. SSH Remote Login
- 1.5.23. SSLv2
- 1.5.24. SSLv3
- 1.5.25. Shall support Encryptions
- 1.6. Quality of Service
 - 1.6.1. Policy based QoS features
 - 1.6.2. Highly configurable traffic classification
 - 1.6.3. Extensive remarking capabilities, to fit in with any network's QoS scheme
 - 1.6.4. Control plane traffic prioritization
 - 1.6.5. Mixed scheduling, to support complex traffic queuing requirements
 - 1.6.6. 8 QoS queues per port
 - 1.6.7. Two-rate three-color (green, yellow, red) bandwidth metering, with burst sizes limited to 64Kbps
 - 1.6.8. ACLs Access Control Lists
 - 1.6.9. IEEE 802.1p Priority Tagging
 - 1.6.10. RFC 2211 Specification of the Controlled-Load Network
 - 1.6.11. RFC 2474 DiffServ Precedence for 8 queues/port
 - 1.6.12. RFC 2475 DiffServ Architecture
 - 1.6.13. RFC 2597 DiffServ Assured Forwarding (AF)
 - 1.6.14. RFC 2697 A Single-Rate Three-Color Marker
 - 1.6.15. RFC 2698 A Two-Rate Three-Color Marker
 - 1.6.16. RFC 3246 DiffServ Expedited Forwarding (EF)
- 1.7. Multicast Support
 - 1.7.1. Bootstrap Router for PIM-SM
 - 1.7.2. IGMP Proxy
 - 1.7.3. IGMP Snooping
 - 1.7.4. MLD Snooping (v1 and v2)
 - 1.7.5. RFC 1112 Host extensions for IP multicasting
 - 1.7.6. RFC 2236 Internet Group Management Protocol v2 (IGMPv2)
 - 1.7.7. RFC 2362 PIM-SM
 - 1.7.8. RFC 2715 Interoperability Rules for Multicast Routing Protocols
 - 1.7.9. RFC 3376 IGMPv3
 - 1.7.10. RFC 3973 PIM-DM
 - 1.7.11. RFC 4541 IGMP & MLD snooping switches
- 1.8. Management
 - 1.8.1. Console management port on the front panel for ease of access
 - 1.8.2. An USB or equivalent memory card socket on the front panel, allowing software release files, configuration and other files to be stored for backup and distribution to other switches
 - 1.8.3. Port mirroring
 - 1.8.4. SSH and SNMPv3 for secure management
 - 1.8.5. RADIUS Authentication
 - 1.8.6. RMON (4 groups)
 - 1.8.7. Event-based Triggers

- 1.8.8. Graphical User Interface (GUI)
- 1.8.9. Industry-standard CLI with built-in Help
- 1.8.10. Powerful CLI scripting tool
- 1.8.11. sFlow
- 1.8.12. RoHS Compliant
- 2. Distribution switches – Type II : Qty-2Nos
 - 2.1. Port Density
 - 2.1.1. 24 port 100/1000 SFP for fiber connectivity
 - 2.1.2. and 4 x 10/100/100T or SFP combo ports
 - 2.1.3. Active 28 ports.
 - 2.2. SFP options required
 - 2.2.1. 100m, 10/100/1000T, RJ-45, SFP
 - 2.2.2. Multi-mode Fiber, GbE Small Form-factor Pluggable (SFP), 850nm
 - 2.2.3. Multi-mode Fiber, GbE Small Form-factor Pluggable (SFP), 850nm
 - 2.2.4. Multi-mode Fiber, 15km, 100FX, SFP, 1310nm
 - 2.2.5. Multi-mode Fiber, 40km, 100FX, SFP, 1310nm
 - 2.2.6. Single-mode Fiber, 10km, GbE SFP, 1310nm
 - 2.2.7. Single-mode Fiber, 10km, GbE SFP, 1310nm
 - 2.3. System Capacity
 - 2.3.1. 128MB RAM
 - 2.3.2. 16MB flash memory
 - 2.3.3. 8K MAC address
 - 2.3.4. Packet buffer memory 4Mbit
 - 2.4. Performance
 - 2.4.1. Throughput 41.6Mpps
 - 2.4.2. Switch fabric speed 62Gbps
 - 2.4.3. Supports 9216 jumbo packets
 - 2.5. VLANs
 - 2.5.1. Supports up to 4094 VLAN IDs
 - 2.5.2. Support for 255 active VLANs
 - 2.5.3. Port-based
 - 2.5.4. IEEE 802.1Q VLAN tag
 - 2.5.5. GVRP
 - 2.5.6. GMRP
 - 2.5.7. Dynamic Vlan
 - 2.6. Features
 - 2.6.1. Auto-negotiation, duplex, MDI/MDI-X
 - 2.6.2. IEEE 802.3x flow control / back pressure
 - 2.6.3. Head of Line (HoL)
 - 2.6.4. Storm Control : Broadcast, multicast and unicast (DLF)
 - 2.6.5. Spanning-Tree Support
 - 2.6.6. IEEE 802.1D Spanning-Tree Protocol
 - 2.6.7. IEEE 802.1w Rapid Spanning-Tree
 - 2.6.8. Pass-through BPDU
 - 2.6.9. Link Aggregation
 - 2.6.10. Static port trunk
 - 2.6.11. IEEE 802.3ad LACP link aggregation
 - 2.6.12. Support for 12 groups per device
 - 2.6.13. Trunk can support up to eight members per group
 - 2.6.14. MAC address aging
 - 2.6.15. Port mirroring
 - 2.6.16. RFC 826 ARP
 - 2.6.17. DHCP
 - 2.6.18. RFC 2131 DHCP client
 - 2.6.19. sFlow
 - 2.6.20. Access control list
 - 2.6.21. LLDP and LLDP - MED

- 2.7. Quality of Service (QoS)
 - 2.7.1. IEEE 802.1p QoS
 - 2.7.2. Eight priority queues
 - 2.7.3. Strict priority and weighted round robin
- 2.8. Multicast Standards
 - 2.8.1. Layer 2 multicast forwarding and filtering up to 256 groups
 - 2.8.2. IGMPv1 /V2 and IGMP V3
- 2.9. Network Management
 - 2.9.1. RFC 1157 SNMPv1/v2c,RFC 2570 SNMPv3,RFC 1215 SNMP traps,RFC 1213 MIB-II
 - 2.9.2. RFC 1573 Extended interface MIB
 - 2.9.3. RFC 1757 RMON 4 groups: Stats, History, Alarms, Events
 - 2.9.4. Web-based GUI
 - 2.9.5. Industry standard CLI
 - 2.9.6. RFC 854 Telnet
 - 2.9.7. Network Time Protocol
 - 2.9.8. HTTP
 - 2.9.9. TFTP
- 2.10. Security
 - 2.10.1. Port security (limited/dynamic)
 - 2.10.2. IEEE 802.1x Basic port base
 - 2.10.3. IEEE 802.1x Multiple host mode
 - 2.10.4. IEEE 802.1x EAP-MD5
 - 2.10.5. RFC 2865 Radius client
 - 2.10.6. SSH server
 - 2.10.7. Open standard NAC
- 3. Access Layer switch Type I : Qty - 25 Nos.
 - 3.1. Port Density
 - 3.1.1. 24 port stackable 10/100/1000T Layer 2 switch
 - 3.1.2. 4 standby SFP bays (unpopulated)
 - 3.2. Performance
 - 3.2.1. Wirespeed switching on all Ethernet ports for all packet sizes including jumbo frames up to 9Kbytes
 - 3.2.2. Throughput up to 50.6Mbps
 - 3.2.3. Switch fabric speed 88Gbps
 - 3.3. System Capacity
 - 3.3.1. 128MB RAM
 - 3.3.2. 16MB flash memory
 - 3.3.3. Up to 4,096 VLAN ID
 - 3.3.4. 8,000 MAC address
 - 3.3.5. Packet buffer memory 12Mbit
 - 3.4. Management
 - 3.4.1. Industry standard CLI
 - 3.4.2. Web Interface
 - 3.4.3. Secure encrypted Web and CLI management with SSHv2 and SSL
 - 3.4.4. Two levels access privileges
 - 3.4.5. SNMP
 - 3.5. Switching Platform
 - 3.5.1. Single IP address stack management
 - 3.5.2. 20Gig resilient ring stacking architecture
 - 3.5.3. Redundant standby stack master
 - 3.5.4. Should support min 200 ports in single stack
 - 3.6. QoS
 - 3.6.1. Eight priorities assigned to four queues
 - 3.6.2. IEEE 802.1p for Layer 2 QoS
 - 3.6.3. DSCP (DiffServ) for Layer 3 QoS
 - 3.6.4. IEEE 802.1p to DSCP remarking traffic ready for transport to the Layer 3 core of the network

- 3.6.5. Layer 2 and Layer 3 Access Control Lists (ACL)
 - 3.6.6. Guest VLAN
 - 3.6.7. TACACS+: for ease of management security administration
 - 3.6.8. Layer 2 and Layer 3 Access Control Lists (ACL)
 - 3.6.9. MAC ACLs – classification fields are based on Layer 2 fields.
 - 3.7. General Standards
 - 3.7.1. IEEE 802.1D Bridging
 - 3.7.2. IEEE 802.3x BackPressure/flow control
 - 3.8. Redundancy Standards
 - 3.9. IEEE 802.1D Spanning-Tree Protocol with optional fast link capability
 - 3.10. IEEE 802.1W Rapid Spanning-Tree
 - 3.11. IEEE 802.1s Multiple Spanning-Tree
 - 3.12. IEEE 802.3ad LACP link aggregation
 - 3.13. (with up to eight members per
 - 3.14. group and up to eight groups per
 - 3.15. device)
 - 3.16. Static port trunk
 - 3.17. Quality of Services (QoS)
 - 3.18. QoS in Layer 2 (IEEE 802.1p compliant Class of
 - 3.19. Service)
 - 3.20. Traffic prioritization using IEEE 802.1p, ToS, DSCP fields
 - 3.21. Map IEEE 802.1p priorities to CoS queues to prioritize
 - 3.22. traffic at egress
 - 3.23. Strict scheduling and weighted round robin
 - 3.24. VLANs
 - 3.25. IEEE 802.1Q VLAN tagging
 - 3.26. Up to 256 active VLANs
 - 3.27. Port-based VLANs
 - 3.28. MAC-based VLANs
 - 3.29. Private VLANs
 - 3.30. GARP VLAN Registration Protocol (GVRP)
 - 3.31. Multicast Standards
 - 3.32. IGMP snooping (ver. 3)
 - 3.33. Management and Monitoring
 - 3.34. WEB, CLI, Telnet, SSH, serial console port
 - 3.35. RFC 1157 SNMPv1/v2c
 - 3.36. RFC 2570 SNMPv3
 - 3.37. RFC 2030 SNTP, Simple Network Time Protocol
 - 3.38. Syslog event
 - 3.39. Dual software images
 - 3.40. Security
 - 3.41. Management security: username and
 - 3.42. password protection
 - 3.43. SSHv2 for Telnet management
 - 3.44. SSLv3 for Web management
 - 3.45. RFC 1492 TACACS+
 - 3.46. RFC 2618 RADIUS authentication
 - 3.47. RFC 2865 IEEE 802.1x port-based
 - 3.48. network access control
 - 3.49. MAC-based network access control
 - 3.50. Guest VLANs
 - 3.51. ACL – Access Control Lists
 - 3.52. Fault Protection
 - 3.53. Broadcast storm control
 - 3.54. ROHS compliant
4. Layer 2 Managed POE Switch Type II : Qty 10 Nos

- 4.1. Port Density
 - 4.1.1. 24-port POE stackable 10/100TX
 - 4.1.2. 2 x SFP bays or 2 x 10/100/1000T ports (RJ-45)
- 4.2. Power over Ethernet
 - 4.2.1. Provides standards based 802.3af
 - 4.2.2. Power over Ethernet to all 24 10/100 ports
 - 4.2.3. Support for up to 24 class 2 Powered devices at 7.3 watts
 - 4.2.4. Support for up to 12 class 3 Powered devices at 15.4 watts
- 4.3. Performance
 - 4.3.1. Chipset switching capacity 12.8Gbps
 - 4.3.2. 64MB RAM
 - 4.3.3. 16MB Flash Memory
 - 4.3.4. Up to 4,096 VLAN ID
 - 4.3.5. 8,000 MAC address
- 4.4. Management
 - 4.4.1. Industry Standard CLI & WebGUI with SSH v2 and SSL
 - 4.4.2. SNMP v3
- 4.5. General Features
 - 4.5.1. Single IP address Stack management
 - 4.5.2. Stacking - upto 6 units
 - 4.5.3. Across Stack Link Aggregation, Stack VLAN configuration, Stack Port Mirroring, Trunking across stack
- 4.6. Quality of Services
 - 4.6.1. 8 Priorities assigned to 4 queues
 - 4.6.2. 802.1p for Layer 2 QoS, DSCP (Diffserv) for Layer 3 QoS
 - 4.6.3. 802.1p to DSCP remarking traffic, Traffic prioritization using 802.1p, ToS, DSCP fields
 - 4.6.4. Strict Scheduling and Weighted Round Robin
- 4.7. Security
 - 4.7.1. Guest VLAN
 - 4.7.2. IP & MAC ACLs
 - 4.7.3. SSHv2 for Telnet management
 - 4.7.4. SSLv3 for WEB management
 - 4.7.5. RFC 1492 TACACS+
 - 4.7.6. RFC 2138 RADIUS Authentication
 - 4.7.7. IEEE 802.1x Port-based network access control
 - 4.7.8. Broadcast, Multicast Storm Control
- 4.8. General Standards
 - 4.8.1. 802.1d Bridging
 - 4.8.2. 802.3x BackPressure/ Flow Control
 - 4.8.3. Redundancy Standards
 - 4.8.4. 802.1D Spanning Tree Protocol
 - 4.8.5. 802.1W Rapid Spanning Tree
 - 4.8.6. 802.1s Multiple Spanning Tree
 - 4.8.7. 802.3ad LACP Link Aggregation
 - 4.8.8. Static port trunk
 - 4.8.9. IGMP snooping v3
 - 4.8.10. VLANs
 - 4.8.10.1. IEEE 802.1Q VLAN Tagging
 - 4.8.10.2. Up to 256 VLANs
 - 4.8.10.3. Port-based VLANs
 - 4.8.10.4. MAC-based VLANs
 - 4.8.10.5. Private VLANs
 - 4.8.10.6. GARP VLAN Registration Protocol (GVRP)
- 4.9. Power Characteristics
 - 4.9.1. Voltage input 100- 240VAC
 - 4.9.2. Max Power consumption 54W
- 4.10. Environmental Specifications

- 4.10.1. Operating Temp 0°C to 45°C (32F to 113F)
- 4.11. Electrical/ Mechanical Approvals
 - 4.11.1. Safety UL 1950 (UL/cUL), EN60950 (TUV), EMI FCC Class A, EN55022 Class A, VCCI Class A, C-Tick, EN61000-3-2, EN61000-3-3, Immunity EN55024
 - 4.11.2. RoHS compliant

SECTION VI-A: QUALIFICATION CRITERIA

(Referred to in Clause 13.3(b) of ITB)

1. (a) The bidder should be a manufacturer who must have manufactures, tested and supplied the equipment(s) similar to the type specified in the 'schedule of requirements' up to at least 80% of the quantity required in any one of the last 3 years. The equipments offered for supply must be of the most recent series models incorporating the latest improvements in design. Further, bidder should be in continuous business of manufacturing products similar to that specified in the schedule of requirements during the last three years prior to bid opening.
(b) Bids of bidders quoting as authorized representatives of equipment manufacturer, meeting with the above requirement in full, can be considered provided.
 - (i) The manufacturer furnishes authorization in the prescribed format assuring full guarantee and warranty obligations as per GCC and SCC; and
 - (ii) The bidder, as authorized representative, has supplied, installed and commissioned satisfactorily at least 80% of the quantity similar to the type specified in the Schedule of Requirements in any one of the last three years which must be in satisfactory operation for at least 6 months on the date of bid opening and must be providing annual maintenance services for the above equipments in the country for over one year.
2. The bidder should furnish the information of past three years supplies and satisfactory performances for both (a) and (b) above, in Performa under Section IX
3. All bids submitted shall also include the following information
 - (i) Copies of Original documents defining the constitution or legal status, place of registration and principle place of business of the company or firm or partnership, etc.
 - (ii) The bidder should furnish a brief write – up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required systems and equipments within the specified time of completion after meeting all their current commitments.
 - (iii) The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the Purchaser or his representative for inspection.
 - (iv) Details of Service Centers and information on service support facilities that would be provided after the warranty period.
 - (v) Reports on financial standing of the bidder such as profit and loss statements, balance sheets and auditor's report for the past three years, banker's certificates, etc.
 - (vi) Minimum financial turnover **Rs. 100 lakh** at least in one of the last three years excluding current financial year.

Notwithstanding anything stated above, the purchaser reserves the right to asses that the Bidder has the financial, technical, and production capability necessary to perform the Contract should circumstances warrant such as assessment

SECTION VII: BID FORM AND PRICE SCHEDULE

SECTION VII: BID FORM

Date :.....
Credit/Loan No :.....
IFB No : **TEQIP-II/TN/TN2G01/57**

TO: The Principal
Government College of Technology,
Coimbatore-641013
Coimbatore District, Tamil Nadu

Gentlemen and/or Ladies :

Having examined the Bidding Documents including Addenda Nos..... [insert numbers], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver..... (Description of Goods and Services) in conformity with the said bidding documents for the sum of (Total bid amount in words and figures) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Purchaser.

We agree to abide by this bid for the Bid validity period specified in Clause 16.1 of the Bid Data Sheet and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below :

Amount Rs. (Rupees.....)

Name and Address of Agent	Purpose of Commission or Gratuity

(If None, state "None")

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

We understand that you are not bound to accept the lowest or any bid you may receive.

We clarify/confirm that we comply with the eligibility requirements as per ITB Clause 2 of the bidding documents.

Dated this day of 19

(signature)

(in the capacity of)

Duly authorized to sign Bid for and on behalf of

PRICE SCHEDULE

Schedule No	Item Description	Quantity	Price of the Goods quoted (ex-works,ex-factory, ex-showroom,ex-ware house, or off-the-shelf, as applicable)	Excise duty, if any	Packing and Forwarding	Inland transportation, Insurance and other local costs incidental to delivery	Incidental services as per Clause 8 of SCC except for AMC which should be quoted separately	Unit Price	Total Price	Sales and other taxes payable, if contract is awarded	
1	2	3	a	b	c	d	e	(a+b+c+d+e)	6	7	
			4					5			
	SERVER,NODESAND HIGH SPEED SWITCHES,ROUTER, FIREWALL										

Total Bid Price (in figures) : Rs.

Total Bid Price (in words) : Rupees:.....

Signature of Bidder
Name and Business Address

SECTION VIII: BID SECURITY FORM

SECTION VIII: BID SECURITY FORM

Whereas¹ (*hereinafter called "the Bidder"*) has submitted its bid dated (*date of submission of bid*) for the supply of (*name and/or description of the goods*) (*hereinafter called "the Bid"*).

KNOW ALL PEOPLE by these presents that WE (*name of bank*) of (*name of country*), having our registered office at (*address of bank*) (*hereinafter called "the Bank"*), are bound unto (*name of Purchaser*) (*hereinafter called "the Purchaser"*) in the sum of _____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this ____ day of _____ 20__.

THE CONDITIONS of this obligation are:

1. If the Bidder
 - (a) withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
 - (b) does not accept the correction of errors in accordance with the ITB; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity:
 - (a) fails or refuses to execute the Contract Form if required; or
 - (b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders;

we undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including forty five (45) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the Bank)

¹ *Name of Bidder*

SECTION IX: CONTRACT FORM

SECTION IX: CONTRACT FORM

THIS AGREEMENT made theday of....., 20... Between
(Name of purchaser) of *(Country of Purchaser)* (hereinafter called "the Purchaser") of the
 one part and *(Name of Supplier)* of *(City and Country of Supplier)*
 (hereinafter called "the Supplier") of the other part :

WHEREAS the Purchaser is desirous that certain Goods and ancillary services viz.,
(Brief Description of Goods and Services) and has accepted a bid by the Supplier for the supply of
 those goods and services in the sum of *(Contract Price in Words and Figures)*
 (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:
 - (a) the Bid Form and the Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Special Conditions of Contract; and
 - (f) the Purchaser's Notification of Award.
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services which shall be supplied/provided by the Supplier are as under:

SIN o	Brief description of Goods and Services	Quantity to be purchased	Unit Price	Total Price	Delivery Terms
1					To be delivered and installed in good working conditions at GCT, Coimbatore, within TWO months

TOTAL VALUE: (inclusive of all taxes)

DELIVERY SCHEDULE: (to be delivered before.....)

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the

said (For the Purchaser)

in the presence of:.....

Signed, Sealed and Delivered by the

said (For the Supplier)

in the presence of:.....

SECTION X: PERFORMANCE SECURITY FORM

SECTION X. PERFORMANCE SECURITY FORM

To: (Name of Purchaser)
WHEREAS (Name of Supplier)
hereinafter called "the Supplier" has undertaken , in pursuance of Contract (Notification of Award)
No..... dated,..... 20... to supply.....(Description
of Goods and Services) hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a
Bank Guarantee by a recognized bank for the sum specified therein as security for compliance with
the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee:
THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier,
up to a total of (Amount of the Guarantee in Words
and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to
be in default under the Contract and without cavil or argument, any sum or sums within the limit of
..... (Amount of Guarantee) as aforesaid, without your needing to prove or to show
grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until theday of.....20.....

Signature and Seal of Guarantors
.....
.....
.....
Date.....20....
Address:.....
.....
.....

SECTION XI: PERFORMANCE STATEMENT

SECTION XI
(Please see clause 13.3 (b) (ii) of instruction to Bidders)

Proforma for Performance Statement (for a period of last three years)

Bid No. ----- Date of Opening Time Hours.

Name of the Firm -----

Order placed by (full address of purchaser)	Order No. and Date	Descriptio n and quantity of ordered equipment	Value of the Order	Date of Delivery		Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (attach a certificate from the purchaser /consignee)
				As per contract	Actual		

Signature and Seal of the Bidder

SECTION XII

(Please see Clause 13.3(a) of Instructions to Bidders)

MANUFACTURERS' AUTHORIZATION FORM*

No. _____ dated

To

Dear Sir:

IFB No. **TEQIP-II/TN/TN2G01/57**

Wewho are established and reputable manufacturers of
..... *(name and description of goods offered)* having factories at
.....*(address of factory)* do hereby authorize M/s
.....*(Name and address of Agent)* to submit a bid, and sign the contract
with you for the goods manufactured by us against the above IFB.

We hereby extend our full guarantee and warranty as per Clause 15 of the General Conditions of Contract and Clause 10 of the Special Conditions of Contract for the goods and services offered for supply by the above firm against this IFB.

Yours faithfully,

(Name of manufacturer)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

* Modify this format suitably in case where manufacturer's warranty and guarantee are not applicable for the items for which bids are invited.

SECTION XIII

SAMPLE FORM

BANK GUARANTEE FOR ADVANCE PAYMENT

To: _____ (*name of Purchaser*)
_____ (*address of Purchaser*)
_____ (*name of Contract*)

Gentlemen:

In accordance with the provisions of the Special Conditions of Contract which amends Clause 16 of the General Conditions of Contract _____ (*name and address of Supplier*) (hereinafter called "the supplier") shall deposit with _____ (*name of Purchaser*) a bank guarantee to guarantee his proper and faithful performance under the said Clause of the Contract in an amount of _____ (*amount of guarantee*)* _____ (*in words*).

We, the _____ (*bank or financial institution*), as instructed by the Supplier, agree unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____ (*name of Purchaser*) on his first demand without whatsoever right of objection on our part and without his first claim to the Supplier, in the amount not exceeding _____ (*amount of guarantee*)* _____ (*in words*).

We further agree that no change or addition to or other modification of the terms of the Contract to be performed thereunder or of any of the Contract documents which may be made between _____ (*name of Purchaser*) and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

This guarantee shall remain valid and in full effect from the date of the advance payment received by the Supplier under the contract until _____

Yours truly,
Signature and seal : _____
Name of bank :
financial institution :
Address :
Date :

* An amount is to be inserted by the bank representing the amount of the Advance Payment.

SECTION XIV

Eligibility for the Provision of Goods, Works and Services in Bank-Financed Procurement.

As of March 2000¹

For the information of Borrowers and Bidders, and with reference to paragraph 1.6, footnote 9, of the *Guidelines: Procurement under IBRD Loans and IDA Credits*, dated January 1995 (revised January and August 1996 and September 1997, and January 1999), set forth below is a list of countries from which Bidders, Goods and Services are not eligible to participate in procurement financed by the World Bank or IDA².

- Andorra
- Cuba
- Democratic People's Republic of Korea (North Korea)
- Liechtenstein
- Monaco
- Nauru
- Tuvalu

In addition, Bidders, Goods and Services from other countries or territories may be declared ineligible by a provision in the Bidding Documents if the borrower's country has excluded them by a law, an official regulation, or an act of compliance meeting the requirements of paragraph 1.8 (a) of the *Guidelines: Procurement under IBRD Loans and IDA Credits*.

The Loan/Credit Agreement also prohibits a withdrawal from the Loan / Credit Account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Bank, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. At the present time, this prohibition applies to no country.

Notes:

1. The most current listing of eligible countries can be viewed on the Public Information Center's Web page at: <http://www.worldbank.org/html/pic/PROCURE.html>. A list of firms debarred from participating in World Bank projects is available at: <http://www.worldbank.org/html/opr/procure/debarr.html>.
2. Any questions regarding this list should be addressed to the Senior Manager, Procurement Policy and Services Group, Operational Core Services Network, The World Bank

ANNEXURE XV

**PROFORMA FOR EQUIPMENT AND QUALITY CONTROL EMPLOYED BY THE
MANUFACTURER**

BID NO. DATE OF OPENING :
NAME OF THE BIDDER :

.....

(Note : All details should relate to the manufacturer for the items offered for supply)

1. Name & full address of the Manufacturer
2. (a) Telephone & Fax No Office/Factory/Works
(b) Telex No. Office/Factory/Works
(c) Telegraphic address :
3. Location of the manufacturing factory.
4. Details of Industrial License, wherever required as per statutory regulations.
5. Details of important Plant & Machinery functioning in each dept. (Monographs & description pamphlets be supplied if available).
6. Details of the process of manufacture in the factory.
7. Details & stocks of raw materials held.
8. Production capacity of item(s) quoted for, with the existing Plant & Machinery
 - 8.1 Normal
 - 8.2 Maximum
9. Details of arrangement for quality control of products such as laboratory, testing equipment etc.
10. Details of staff:
 - 10.1 Details of technical supervisory staff in charge of production & quality control.
 - 10.2 Skilled labour employed.
 - 10.3 Unskilled labour employed.
- 10.4 Maximum No. of workers (skilled & unskilled) employed on any day during the 18 months preceding the date of Tender.
11. Whether Goods are tested to any standard specification? If so, copies of original test certificates should be submitted in triplicate.
12. Are you registered with the Directorate General of Supplies and Disposals, New Delhi 110 001, India? If so, furnish full particulars of registration, period of currency etc. with a copy of the certificate of registration.

.....
Signature and seal of the Manufacturer