

TENDER DOCUMENT

For

Wireless Local Area Networking (WLAN)

in

National Book Trust, India

Located at

Plot no 5, Phase II, Institutional Area,
Vasant Kung, New Delhi
(An Autonomous Organization
Department of Higher Education under
Ministry Of Human Resource & Development)

Tender No. CC/0809/WLAN/01

Dated: 1/May/2008

Table of Contents

Sl. No	Item	Particulars	Page No
1	Section-I	Invitation for Bids	3
2	Section-II	Instructions to Tenderers	5
3	Section-III	General Conditions of Contract	12
4	Section -IV	Technical Specification	19
5	Section -V	Bid Schedules	33
6	Appendices		
		Appendix A: Bid Security Form	41
		Appendix B: Bank Guarantee Form	42
		Appendix C: Contract Form	44
7	Check List		46
8	Sketch WLAN Network for National Book Trust India Offices		47-48

SECTION I

Invitation for Bids

1. This invitation of Bids is for :-

Supply and installation/laying of active and passive components/equipment for Wireless local area networking of National Book Trust India's two new buildings blocks named as

a) Office and Presentation block

b) Store and Housing block

located at Plot no 5, Phase II, Institutional Area, Vasant Kung, New Delhi with the objective of interconnecting all the desktop personal computers under one secure centralized control system to harness the benefit of latest developments of Information Technology.

2. The bidding document may be obtained from the office of Asst. Director, Administration Section, National Book Trust India, A-5 Green park, New Delhi-110016 during office hours, from **10:00 am to 4:00 pm, on all working days upto 8th May 2008** in person. This Tender document can also be downloaded from website **www.nbtindia.org.in**

3 Tenderers are advised to study the Tender Document carefully. Submission of Tender shall be deemed to have been done after careful study and examination of the Tender Document with full understanding of its implications.

4 Sealed offers prepared in accordance with the procedure described in Clause 1 of Section II should be submitted to the Asst. Director, Administration Section, National Book Trust India, A-5 Green park, New Delhi-110016, not later **than 26 May 2008, at 3.00 P.M.**

5 The Tenderer must be a company registered under the Indian Companies Act, 1956.

6 The Tender comprises of two bid systems - the Technical Bid and Price Bid. The Tenderer has to submit a Bid Security /Earnest Money Deposit (EMD) of Rs **100,000/-** (One lakh only) along with the Technical Bid.

7 Period for completion of work :

It has been targeted that the work of WLAN installation covering supply, installation, Testing and commissioning should be completed within **three weeks** of notification of award.

8 The bidders would have to quote the prices in Indian Rupees only covering the total scope of work.

9 Key Dates etc.:

a) Name of the Purchaser:

Director,

National Book Trust, India

New Delhi -110066.

b) Location where the work of WLAN Installation would take place:

Office and Presentation Block and Store and Housing block

National Book Trust, India

Plot no 5, Phase II, Institutional Area,

Vasant Kung, New Delhi

c) Addressee and Address at which Bids are to be submitted:

(i) Addressee:

Director,

National Book Trust India

A-5 Green Park, New Delhi 110016

(ii) Address of bid submission:

Asst. Director,

Administration Section,

National Book Trust India,

A-5 Green park, New Delhi-110016

c) Tender document may be obtained latest by: **8th May 2008 upto 4.00 p.m.**

e) Latest time and date for receipt of Bids: **On or before 3.00 p.m. on 26th May 2008.**

f) Place, Time and Date of opening of Technical Bids:

3.30 P.M. on 26th May 2008.

Conference Hall,

National Book Trust India

A-5 Green park New Delhi

The date, time and venue for opening Price bids will be intimated separately to those successful in technical bids.

g) Bid Validity:

120 days from the date of opening of the Technical Bids.

Note: The Purchaser shall not be responsible for non-receipt/ non-delivery of the Bid documents due to any reason whatsoever.

SECTION II

INSTRUCTIONS TO TENDERERS

1. Procedure for Submission of Bids

1.1 It is proposed to have a Two Cover System for this tender.

a) Technical Bid (2 copies) in one cover.

b) Price Bid (2 copies) in one cover.

1.2 Each copy of Technical Bid of the Tender should be covered in a separate sealed cover super scribing the wordings "Technical Bid". Each copy should also be marked as "Original" and "Copy". Both copies should be put in a single sealed cover super scribing the wordings "Technical Bid". Please Note that **Prices should not be indicated** in the Technical Bid.

1.3 Each copy of Price Bid of the Tender should be covered in a separate sealed cover super scribing the wordings "Price Bid". Each copy should also be marked as "Original", and "Copy". Both copies should be put in a single sealed cover super scribing the wordings "Price Bid".

1.4 Both the Technical Bid cover and Price Bid Cover, prepared as above, are to be kept in a single sealed cover super scribed with Tender Number, Due Date, Item and the wordings "**DO NOT OPEN BEFORE 26th May 2008**"

1.5 The cover thus prepared should also indicate clearly the name and address of the tenderer, to enable the Bid to be returned unopened in case it is declared "Late".

1.6 Each copy of the Bids should be a complete document and should be bound as a volume. Different copies must be bound separately.

1.7 A letter, in a separate sealed cover, enclosing Bid security and describing the pre-qualifying technical competence and experience of the Tenderer and also certifying the period of validity of Bids for 120 days from the date of opening of the Technical Bids, should also be submitted with the Bid (Refer Clause 7.1(c) and Clause 20).

2. Cost of Tender

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

3. Contents of the Tender Document

3.1 The broad specifications of the Scope of Work, Tender procedures and contract terms are prescribed in this Tender Document comprising of:

(a) Section-I - Invitation for Bids

(b) Section II - Instructions to Tenderers;

(c) Section III - General Conditions of Contract;

(d) Section IV - Technical Specification

(e) Section V – Bid Schedules

(f) Appendices, sketch and Checklist

3.2 The Tenderer is expected to examine all instructions, forms, terms and requirements in the Tender Document. Failure to furnish all information required by the Tender Document or submission of a bid not substantially responsive to the Tender Document in every respect will be at the Tenderer's risk and may result in the rejection of the bid.

4. Clarification of Tender Document

4.1 A prospective Tenderer requiring any clarification on the Tender Document may notify the Purchaser in writing at the Purchaser's mailing address indicated in Clause 9(c) of Section I. The Purchaser will respond in writing, to any request for clarification of the Tender Document, received not later than 1 day prior to the last date for the receipt 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 Tenderers who have purchased the Tender Document and shall be posted on National Book Trust, India (here after called as Trust) website.

5. Amendment of Tender Document

5.1 At any time prior to the last date for receipt of bids, the Purchaser, may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Tenderer, modify the Tender Document by an amendment.

5.2 The amendment will be notified in writing or by fax to all prospective Tenderers who have purchased the Tender Document and will be binding on them.

5.3. In order to afford prospective Tenderers reasonable time in which to take the amendment into account in preparing their bids, the Purchaser may, at its discretion, extend the last date for the receipt of Bids.

6. Language of Bids

6.1 The Bids prepared by the Tenderer and documents relating to the bids exchanged by the Tenderer and the Purchaser, shall be written in the English language, provided that any printed literature furnished by the Tenderer may be written in another language so long as the same is accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.

7. Documents Comprising the Bids

7.1 The bids prepared by the Tenderer shall comprise of the following components:

(a) Technical Bid comprising of the following:

a. Bid Particulars (Annexe 5.1.1)

b. Bid Letter (Annexe 5.1.2)

c. Detailed technical Proposal (Annexe 5.1.3)

d. Statement of Deviation from Schedule of Requirements (Annexe5.1.4)

e. Statement of Deviation from Tender Terms and Conditions (Annexe5.1.5)

f. Vendor Profile (Annexe 5.1.6)

(b) Price Bid comprising of the following:

a. Bid Letter (Annexe 5.2.1)

b. Price Schedule (Annexe 5.2.2)

(c) A letter in a separate sealed cover describing the Pre-qualifying Technical Competence such as proven experience in providing Similar Services for determining pre-qualification conditions and Bid Security.

8. Bid Prices

8.1 The bidders would have to quote the prices in Indian Rupees only for the total scope of work.

9. Firm Prices

9.1 Prices quoted must be firm and final and shall remain constant throughout the period of the contract and shall not be subject to any upward modifications, whatsoever.

10. Discount

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

11. Tenderer

11.1 The "Tenderer" as used in the tender documents shall mean the one who has submitted the Tender. The Tenderer may be either the Principal or his duly Authorized Representative, in which case he/she shall submit a certificate of authority.

12. Bid Security

12.1 Pursuant to Clause 7.1(c) of Section II the Tenderer shall furnish, as part of its bid, a bid security of the amount mentioned in Clause 6 of Section I.

12.2 The bid security is required to protect the Purchaser against the risk of Tenderer's conduct which would warrant the security's forfeiture, pursuant to Clause 12.8.

12.3 The bid security shall be denominated in Indian Rupees, and shall be in the form of a bank guarantee issued by a Nationalised / Scheduled Bank, in the proforma provided at Appendix A in the Tender Document and shall be valid for 45 days beyond the validity of the Bid.

12.4 Any bid not secured in accordance with Clauses 12.1 and 12.3 will be rejected by the Purchaser as non-responsive.

12.5 Unsuccessful Tenderer's bid security will be discharged/ returned as promptly as possible after the expiration of the period of bid validity prescribed by the Purchaser, pursuant to Clause 13.

12.6 The successful Tenderer's bid security will be discharged upon the Tenderer executing the Contract, pursuant to Clause 35 and furnishing the performance security, pursuant to Clause 36.

12.7 No interest will be payable by the Purchaser on the amount of the Bid Security.

12.8 The bid security may be forfeited:

- (a) if a Tenderer withdraws its bid during the period of bid validity specified by the Tenderer in the Bid; or
- (b) in the case of a successful Tenderer, if the Tenderer fails;
 - (i) to sign the Contract in accordance with Clause 35; or
 - (ii) to furnish performance security in accordance with Clause 36.

13. Period of Validity of Bids

13.1 Bids shall remain valid for 120 days after the date of opening of Technical Bids prescribed by the Purchaser. A bid valid for a shorter period may be rejected by the Purchaser as non responsive.

13.2 In exceptional circumstances, the Purchaser may solicit the Tenderer's consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by fax). The validity of bid security provided under Clause 12 shall also be suitably extended. A Tenderer may refuse the request without forfeiting its bid security. A Tenderer accepting the request will not be required nor permitted to modify its bid.

14. Format and Signing of Bid

14.1 The Tenderer shall prepare two copies of the Bid, clearly marking each "Original" and "Spare Copy" as appropriate in accordance with Clause 1. In the event of any discrepancy between them, the original shall govern.

14.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Tenderer or a person or persons duly authorized to bind the Tenderer to the Contract in pursuant to Clause 11. The letter of authorization shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for an amended printed literature, shall be initialed by the person or persons signing the bid.

14.3 The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Tenderer in which case such corrections shall be initialed by the person or persons signing the bid.

15. Revelation of Prices

15.1 Prices in any form or by any reason before opening the Price Bid should not be revealed, failing which the offer shall be liable to be rejected. If price change is envisaged due to any clarification, supplementary Bid in a separate sealed cover shall be accepted prior to price bid opening with prior written permission of the Purchaser.

16. Terms and Conditions of Tendering Firms

16.1 Printed terms and conditions of the tenderers will not be considered as forming part of their tenders. In case terms and conditions of the contract applicable to this Invitation of Tender are not acceptable to any Tenderer, he should clearly specify deviation in its tender.

16.2 Similarly in case the Services being offered has deviations from the specifications laid down in Section V, the tenderer shall describe in what respects and to what extent the Services being offered differ/deviate from the specifications, even though the deviations may not be very material.

Tenderer must state categorically whether or not his offer conforms to tender specifications and indicate deviations, if any.

17. VOID

18. Site Conditions

18.1 It will be imperative on each tenderer to fully acquaint himself with the site conditions and factors which would have any effect on the performance of the contract and / or the cost.

19. VOID

20. Conditions for Pre-Qualification of Tenderers

20.1 Pursuant to Clause 7.1(c) of Section II, the Tenderer should clearly indicate, giving explicit documentary evidence along with the letter of prequalification, in respect of the Services offered, the following:

- i) Bid Security of the prescribed amount and validity pursuant to Clause 12.
- ii) Domain Experience: The Tenderer should be in the business of supply, installation & commissioning of LANs for atleast three years. The Tenderer should have proven experience of successfully completing at least two projects with total value of each project being at least Rs **25 lakhs** during last two financial years preferably in NCR region. Out of these two projects, one project should have been done with similar components quoted in the offer. Proof of satisfactory completion along with scope of these works to be submitted with the bid.

iii) Technical Support Facility: The Tenderer should have technical support office in the NCR region. Details & proof of service facilities for Technical Support on services, maintenance and availability of hardware components and manpower be attached.

iv) Company Turnover : The Tenderer should have a minimum turnover of Rs. 50 Lakhs in each of the last two years on account of supply, installation and commissioning of Networks. Relevant proof in the form of audited annual report or balance sheet duly certified by Chartered Accountant certifying the turn over in the field of Networking should be submitted.

v) The Tenderer must be a company registered under the Indian Companies Act, 1956 (Attach Memorandum of Association and Articles of Association alongwith commencement of business certificate) and should have Delhi Sales Tax registration.

vi) The Tenderer should have Authorization from concerned Original Equipment Manufacturers(OEMs) for supply and support for all active and passive components quoted for at least five years (Authorisation Certificates to be attached).

21. Sealing and Marking of Bids

21.1 The Tenderers shall seal and mark the original and each copy of the Bid strictly in accordance with Clause 1.

21.2 If the outer cover of the bid is not sealed and marked as required by Clause 1, the Purchaser will assume no responsibility for the bid's misplacement or premature opening.

22. Last Date for Receipt of Bids

22.1 Bids must be received by the Purchaser at the address specified under Clause 9(c) of Section I not later than the time and date specified in Clause 9(e) of Section I. In the event of the specified date for the receipt of Bids being declared a holiday for the Purchaser, the Bids will be received upto the appointed time on the next working day.

22.2 The Purchaser may, at its discretion, extend the last date for the receipt of bids by amending the Tender Document in accordance with Clause 5, in which case all rights and obligations of the Purchaser and Tenderers previously subject to the last date will thereafter be subject to the last date as extended.

23. Late Bids

23.1 Any bid received by the Purchaser after the appointed time on the last date for receipt of bids prescribed by the Purchaser, pursuant to Clause 9 Section I, will be rejected and/or returned unopened to the Tenderer.

24. Modification and Withdrawal of Bids

24.1 The Tenderer 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 last date prescribed for receipt of bids.

24.2 The Tenderer's modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of Clause 1. 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 last date for receipt of bids.

24.3 No bid may be modified subsequent to the last date for receipt of bids.

24.4 No bid may be withdrawn in the interval between the last date for receipt of bids and the expiry of the bid validity period specified by the Tenderer in the Bid. Withdrawal of a bid during this interval may result in the Tenderer's forfeiture of its bid security.

25. Address for Correspondence

25.1 The Tenderer shall designate the official mailing address, place and fax number to which all correspondence shall be sent by the Purchaser.

26. Opening of Bids by Purchaser

26.1 On the basis of information given in the letter of pre-qualification, as mentioned at Clause 20, Tenderers will be pre-qualified.

26.2 Price Bids of only pre-qualified tenderers will be opened.

26.3 The Purchaser will open the Bids, in the presence of the representatives of the Tenderers who choose to attend, at the time and date, as mentioned in Section I of this Document.

26.4 The Tenderers' names, modifications, bid withdrawals and the presence or absence of the requisite Bid Security and such other details as the Purchaser, at its discretion, may consider appropriate will be announced at the bid opening.

27. Clarifications

27.1 When deemed necessary, the Purchaser may seek clarifications on any aspect from the tenderer. However, that would not entitle the Tenderer to change or cause any change in the substance of the tender submitted or price quoted.

28. Preliminary Examination

28.1 The Purchaser will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required bid security has been furnished, whether the documents have been properly signed, and whether the bids are generally in order.

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

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

28.4 The Purchaser may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Tenderer.

29. Contacting the Purchaser

29.1 No Tenderer 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.

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

30 Evaluation Criteria

30.1 Bids will be evaluated on, including but not limited to the content of technical experience, managerial competence, proposed scope of the proposal and cost. The selection may be made without discussion and/or price negotiation. Therefore, the proposal should be submitted complete and on the most favorable terms.

30.2 Only successful Tenderers of technical bid would be considered for evaluation of Price bid.

31. Award Criteria

31.1 Subject to Clause 30, the Purchaser will award the Contract to the successful Tenderer whose bid has been determined to be substantially responsive and has been

determined as the lowest evaluated bid, provided further that the Tenderer is determined to be qualified to perform the Contract satisfactorily. The Purchaser shall however not bind itself to accept the lowest or any bid and reserves the right to accept any bid, wholly or in part.

32. Purchaser's Right to Vary Scope of Contract

32.1 The Purchaser may at any time, by a written order given to the Vendor pursuant to Clause 12 of Section III, make changes within the general scope of the Contract.

32.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Vendor's performance of any part of the work under the Contract, whether changed or not changed by the order, 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 Vendor for adjustment under this Clause must be asserted within thirty (30) days from the date of the Vendor's receipt of the Purchaser's changed order.

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

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

33.2 Tenders that are not accompanied with Earnest Money Deposit (EMD) /Bid Security and Tender fees shall be rejected outright

34. Notification of Award

34.1 Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Tenderer in writing by registered letter or by cable or telex or fax, to be confirmed in writing by registered letter, that its bid has been accepted.

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

34.3 Upon the successful Tenderer's furnishing of performance security pursuant to Clause 36, the Purchaser will promptly notify each unsuccessful Tenderer and will discharge its bid security, pursuant to Clause 12.

35. Signing of Contract

35.1 At the same time as the Purchaser notifies the successful Tenderer that its bid has been accepted, the Purchaser will send the Tenderer the Contract Form (Appendix C) provided in the Tender Document, incorporating all agreements between the parties.

35.2 Within 7 days of receipt of the Contract Form, the successful Tenderer shall sign and date the Contract and return it to the Purchaser.

36. Performance Security

36.1 Within 7 days of the receipt of notification of award from the Purchaser, the successful Tenderer shall furnish the performance security in accordance with the Conditions of Contract, in the Contract Performance Guarantee Bond prescribed at Appendix B.

36.2 Failure of the successful Tenderer to comply with the requirement of Clause 35 or Clause 36 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security.

SECTION III

GENERAL CONDITIONS OF CONTRACT

1. Definitions

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

- (a) "The Client" or "The Purchaser" means the Director , National Book Trust India, New Delhi.
- (b) "Purchase Officer" means the officer signing the acceptance of tender and includes any officer who has authority to execute the relevant contract on behalf of the Client.
- (c) The "Contract" means the agreement entered into between the Client and the Contractor as recorded in the Contract Form signed by the Client and the Contractor, including all attachments and annexes thereto and all documents incorporated by reference therein.
- (d) The "Contractor" or "Vendor" means the firm or the company selected through tendering process and shall be deemed to include the Contractor's successors, representatives (approved by the Client), heirs, executors, administrators and permitted assigns, as the case may be, unless excluded by the terms of the contract.
- (f) "The Contract Price" means the price payable to the Contractor under the Contract for the full and proper performance of its contractual obligations;
- (g) "Service" means services to be provided by the Contractor as per the requirements specified in Section IV of this document and any other incidental services, such as setting up of necessary infrastructure, implementation, provision of technical assistance, training and other such obligations of the Contractor covered under the Contract;
- (h) "Acceptance of Tender" means the letter/telex/telegram/ fax or any memorandum communicating to the Tenderer the acceptance of his tender and includes an advance acceptance of his tender.

2. Application

2.1 These General Conditions shall apply to the extent that provisions in other parts of the Contract do not supersede them.

3. Standards of Performance

3.1 The Contractor shall perform the Services and carry out it's obligations under the Contract with due diligence, efficiency and economy, in accordance with generally accepted techniques and practices used in the industry and with professional engineering and consulting standards recognized by international professional bodies and shall observe sound management, engineering practices. It shall employ prudent technical and engineering practices. It shall employ advanced technology and safe and effective equipment, machinery, material and methods. The Contractor shall always act, in respect of any matter relating to this Contract, as faithful advisors to the Client and shall, at all times, support and safeguard the Client's legitimate interests in any dealings with Third Parties.

4. Use of Contract Documents and Information

4.1 The Contractor shall not, without the Client'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 Client in connection therewith, to any

person other than a person employed by the Contractor in the 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.

4.2 The Contractor shall not, without the Client's prior written consent, make use of any document or information except for purposes of performing the Contract.

4.3 Any document, other than the Contract itself, shall remain the property of the Client and shall be returned (in all copies) to the Client on completion of the Contractor's performance under the Contract, if so required by the Client.

5. Performance Guarantee

5.1 Within 7 days after the receipt of notification of award of the Contract from the Client, the successful Tenderer shall furnish Performance Guarantee to the Client, which shall be equal to 10% of the value of the Contract and shall be in the form of a Guarantee Bond from a Nationalised / Scheduled Bank in the Proforma given at Appendix B. The validity of the Performance guarantee submitted should be for a period of four years from the date of receipt of notification of award from the client.

5.2 The performance guarantee shall be deemed to govern the following guarantees from the successful tenderer, in addition to other provisions of the guarantee:

- The hardware/Software supplied under the contract shall be free from all defects/bugs and upon written notice from the client, the successful Tenderer shall fully remedy, free of expense to the client, all such defects/bugs as developed under the normal use of the said hardware/software.
- To fulfill the conditions of work contract/purchase order.
- The performance guarantee is intended to secure the performance of the entire system. However, it is not to be construed as limiting the damages stipulated in any other clauses.

6. Inspections and Tests

6.1 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. The Purchaser shall notify the Supplier in writing in a timely manner of the identity of any representatives retained for these purposes.

6.2 The inspections and tests may be conducted on the premises of the Supplier or, at point of delivery and/or at the Goods final destination. If conducted on the premises of the Supplier, all reasonable facilities and assistance, including access to drawings and production data – shall be furnished to the inspectors at no charge to the Purchaser. The testing/ inspection shall be done at the site at the time of delivery of the equipment against any physical damage on delivery.

6.3 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.

6.4 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.

6.5 Nothing in Clause 6 shall in any way release the Supplier from any warranty or other obligations under this Contract.

6.6 It will be the responsibility of the Tenderer to submit the system test procedure for conducting the post installation site acceptance testing. The procedure submitted by

the Tenderer should be drafted in line with the standard practices followed in the industry and should be in accordance with the test procedure and practices specified by the OEM. The draft of Acceptance Testing Procedure should be submitted to the Purchaser for approval at least 15 days before the schedule site acceptance date. The acceptance test procedure on approval by the purchaser shall become the document for acceptance of the equipment after installation at the site.

7. Warranty

7.1 The Tenderer 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. This warranty shall remain valid for a period of a minimum 36 months after the Goods or any portion thereof as the case may be, have been delivered, commissioned and accepted at the final destination indicated in the Contract.

7.2 The Tenderer shall post a well qualified and experienced Service Engineer full time at the site at his own expense and get the defects/bugs removed in the system as detected by the Purchaser during the period of warranty.

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

7.4 Upon receipt of such notice, the Tenderer shall, within 48 hours and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Purchaser.

7.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in 7.4 above, the Purchaser may proceed to take such remedial action as may be necessary, at the Tenderer's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

8. Documentation

8.1 The Tenderer shall supply the following documents at the time of Acceptance Test:

- Complete set of Technical/Operation and Maintenance Manual
- An inventory of items delivered.
- Comprehensive inventory
- Node & connectivity details
- Access Points, Controller and other equipments installation Report
- System diagram
- Certification details of Access Points, Controller and other equipments

9 Project Schedule & Monitoring

9.1 The Tenderer shall plan various activities and submit the execution schedule and bar chart along with signing of the contract. The execution schedule should clearly indicate all activities and the time required for completion of each activity taking the total project time as three weeks (**3 weeks**). Parallel and dependent activities for each activity need to be specified in the schedule.

This will form the basis for Monitoring of execution of the project and any delay/slippage from the schedule will be reviewed by both parties in review meetings from time to time and remedial measures decided to complete the project as per the schedule.

10. Training

10.1 The Tenderer shall provide necessary training to the persons authorized by the client for using/maintaining the Wireless Networking facility. Training for 10 man days (2 persons 5 days) shall be included.

11. Currency of Payment

11.1 Payment shall be made in Indian Rupees only.

12. Change Orders

12.1 The Client may at any time, by a written order given to the Contractor pursuant to Clause 32 of Section II, make changes within the general scope of the Contract.

12.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Vendor's performance of any part of the work under the Contract, whether changed or not changed by the order, 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 Contractor for adjustment under this Clause must be asserted within thirty (30) days from the date of the Vendor's receipt of the Purchaser's changed order.

13. Contract Amendments

13.1 No variation in or modification of the terms of the Contract shall be made except by written amendment signed by both the parties i.e. the Contractor and the Client.

14. Assignment

14.1 The Tenderer shall not assign or sub contract, in whole or in part, its obligations to perform under the Contract.

15. Terms of Payment

15.1 The payment to the vendor shall be made as under:

S.No	Delivered item/service	Release of payment
1	Delivery of passive and active components, Server,UPS and Network Management Software and submission of Layout Plan to National Book Trust, India	50% of the Total cost.
2	Connection and testing and commissioning of active and passive components with the network laid (1 above) with test reports.	Balance 40% of the Total cost.
4	After 2 months of successful operation of the network.	Balance 10% of the Total cost.

15.2 No Advance payment will be made.

15.3 Payment will be made only after submission of following documents by the Tenderer:

- Pre receipted bills in triplicate
- Delivery Challan
- Pre dispatch inspection certificate or waiver thereof

15.4 No amount would accrue to the Contractor in case of failure to furnish Performance Security.

16. Delays in the Contractor's Performance

16.1 An unexcused delay by the Contractor in the performance of its Contract obligations shall render the Contractor liable to any or all of the following sanctions:

- (i) forfeiture of its performance security;
- (ii) imposition of Liquidated Damages
- (iii) termination of the Contract for default.

16.2 If at any time during performance of the Contract, the Contractor should encounter conditions impeding timely completion of the services under the contract and performance of the services, the Contractor shall promptly notify the Client in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable, after receipt of the Vendor's notice, the Client shall evaluate the situation and may at its discretion extend the Vendor's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.

16.3 Liquidated Damages

Subject to clause 16. if the Tenderer fails to complete the project within the time period 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 5% per week (seven days) or part there of the contract price of unperformed services for each week(seven days) or part thereof of delay subject to maximum deduction of 10% of the contract price. Once the maximum is reached, the purchaser may consider termination of the contract pursuant to clause 17.

17. Termination for Default

17.1 The Client may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Contractor, terminate the Contract in whole or in part if:

- (a) the Contractor fails to deliver any or all of the obligations within the time period(s) specified in the Contract, or any extension thereof granted by the Client pursuant to Clause 16; or
- (b) the Contractor fails to perform any other obligation(s) under the contract.

18. Force Majeure

18.1 Notwithstanding the provisions of Clauses 16 and 17, the Contractor shall not be liable for forfeiture of its performance security, 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.

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

18.3 If a force Majeure situation arises, the Contractor shall promptly notify the Client in writing of such conditions and the cause thereof. Unless otherwise directed by the Client in writing, the Contractor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all prevention by the Force Majeure event.

19. Termination for Insolvency

19.1 The Client may at any time terminate the Contract by giving written notice to the Contractor, without compensation to the Contractor, if the Contractor becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or

affect any right of action or remedy which has accrued or will accrue thereafter to the Client.

20. Arbitration

20.1 The Client and the Contractor shall make every effort to resolve amicably by direct informal negotiations, any disagreement or disputes, arising between them under or in connection with the Contract.

20.2 If, after Thirty (30) days from the commencement of such direct informal negotiations, the Client and the Contractor have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanism specified in Clauses 20.3 and 20.4.

20.3 In the case of a dispute or difference arising between the Client and the Contractor relating to any matter arising out of or connected with this Contract, such dispute or difference shall be referred to the award of two Arbitrators, one Arbitrator to be nominated by the Client and the other to be nominated by the Contractor or in case of the said Arbitrators not agreeing, then to the award of an Umpire to be appointed by the Arbitrators in writing before proceeding with the reference, and in case the Arbitrators cannot agree to the Umpire, he may be nominated by the Secretary, Indian Council of Arbitration, New Delhi. The award of the Arbitrators, and in the event of their not agreeing, of the Umpire appointed by them or by the Secretary, Indian Council of Arbitration, New Delhi shall be final and binding on the parties.

20.4 The Arbitration & Conciliation Act 1996, the rules there under and any statutory modification or re-enactments thereof, shall apply to the arbitration proceedings.

20.5 The venue of arbitration shall be Delhi.

20.6 The Client may terminate this contract, by giving a written notice of termination of minimum 30 days, to the Contractor, if the Contractor fails to comply with any decision reached consequent upon arbitration proceedings pursuant to Clause 20.

21. Governing Language.

21.1 The Agreement shall be written in English language. All correspondence and other documents pertaining to the Contract which are exchanged by the parties shall be written in English language.

22. Applicable Law

22.1 The contract shall be interpreted in accordance with the Indian laws.

23. Notices

23.1 Any notice by one party to the other pursuant to the Contract shall be sent in writing or by telegram or by telex and confirmed in writing to the address specified for that purpose in the contract.

23.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

24. Taxes

24.1 The successful Tenderer shall be entirely responsible for all taxes, duties, octroi, license fees, demurrage charges etc., in respect of this contract and provisions of Income tax Act regarding deduction of tax at source shall apply.

SECTION IV

TECHNICAL SPECIFICATION

1. Intent of Specification

National Book Trust is an autonomous body under Ministry Of Human Resource Development is an apex body in the books publishing sector in the country and plays an important role in the promoting the good and healthy literature. National Book Trust India has various regional offices located in different parts of the country with headquarter at New Delhi.

The new building of National Book Trust India is almost constructed at Plot no 5, Phase II, Institutional Area, Vasant Kung, New Delhi. This new building contains two separate blocks.

a) Office and Presentation block (all floor including basement)

b) Store and Housing block (all floor including basement)

National Book Trust India requires the Centralized controlled wireless networking of the Office and Presentation block and Store and housing block. The proposed wireless local area network of both blocks shall have around 150 nodes. This total wireless local area system must be controlled from a single location i.e. i.e whole system control must be centralized and must be controlled through Computer Cell.

2. SCOPE OF WORK

2.1 The objective of this tender is to establish a **Secured Centralized Wireless Networking** of all the nodes (Computers) to be installed at the floors (including basement) of two new buildings blocks of National Book Trust, India named as

a) Office and Presentation block

b) Store and Housing block

located at Plot no 5, Phase II, Institutional Area, Vasant Kung, New Delhi. The wireless network should provide a blanket coverage of both building blocks.

2.2 A sketch showing Wireless LAN Network at Office and Presentation and Store and Housing Block is enclosed as part of this Tender Document. As shown in this sketch, it is intended to establish wireless network for about 150 nodes.

2.3 The wireless networking of Office and Presentation block to Store and Housing block is also to be done. Store and Housing block is located behind Office and Presentation block and is separated by a service road. The distance between the two buildings is about 40 meters. The suitable proposal may be proposed by the bidder in this regard, with full reasoning.

2.4 The scope covers design/development of a suitable architecture/layout of the proposed secured centralized wireless networking system, preparation of bill of materials, pre-dispatch inspection / testing, packing and forwarding, transportation, insurance and carrying out further activities at sites viz. unloading, storage, (space to be provided by the owner) further handling, erection, testing and commissioning including successful completion of acceptance tests and any other services specified.

2.5 Detailed Bill of material included in this tender is given at Clause 4.0. However, National Book Trust, India reserves the right for quantity variation due to increase/decrease in requirements. The bidder shall also provide all required equipment which may not be specifically stated herein but are required to meet the intent of ensuring completeness, maintainability and reliability of the total system covered under this specification.

2.6 Scope of Work shall also include

- a) Powering on equipment after ensuring correctness of terminations, interfaces and power supply and making the system ready for testing and commissioning.
- b). Testing of system and all testing tools and instruments shall be brought by the bidder and taken back after the testing.
- c) Configuration of the equipment as per the requirements of National Book Trust, India including Wireless Network segmentation and Wireless Network Monitoring
- d) Field testing and commissioning of system.
- e) Site acceptance tests to establish satisfactory performance of the equipment's as per specimens.
- f) Assistance for familiarization and operation of the installed system & services for 6 months after acceptance of system.
- g) Training to Owner's personnel as stipulated at clause 10 of Section-III.
- h) Onsite warranty for all Hardware/software delivered for three years.

2.7 In case, the quantity of equipments such as Access Point, Antenna, cable etc. is greater or is less than the quantity in bid price schedule, the payment for the executed quantity shall be paid on pro-rata basis, for the actual quantities for which the installation is carried out through the Bidder on Certification by Site Engineer.

3 General Technical Requirements

3.1 All active Wireless LAN components such as Access Point, Controller & equipment's offered shall be of the same Make/manufacturer and shall be covered under same back-up guarantee from the same OEM, to ensure full compatibility, inter-working and inter-operability.

3.2 Equipment furnished shall be complete in every respect with all mountings, fittings, fixtures and standard accessories including antenna, normally provided with such equipment's and/or needed for erection, completion and safe operation of the equipment's as required by applicable codes though they may not have been specifically detailed in the technical specification, unless included in the list of exclusions. All similar standard components/parts of similar standard equipment's provided, shall be inter-changeable with one another.

3.3 The proposed site of National book Trust, India at Vasant Kunj is almost completed. The methodology of cabling an installation work, to be adopted, has to ensure minimum damage to the existing finish and no loss to the aesthetic beauty of the floors. Any damage to the existing flooring/ walls etc. shall be made good by the Bidder. It is advised that tenderer should visit site before submitting the tender to get apprised about the site conditions.

3.4 The Bidder shall be responsible for providing all materials, equipment's, and services, specified or otherwise, which are required to fulfill the intent of ensuring operability, maintainability, and reliability of the complete equipment covered under this specification within his quoted price. This work shall be in compliance with all applicable standards, statutory regulations and safety requirements in force of the date of award of this contract.

3.5 The bidder shall also be responsible for deputing qualified personnel for installation, testing, commissioning and other services under his scope of work as per this specification. All required tools and tackles for completing the scope of work as per the specification is also the responsibility of the bidder.

3.6 The bidders proposal shall include the list of tools such as crimping tool and accessories which shall be furnished with the equipment. These are to be clearly brought out with itemized price in the bid. However the prices of these special tools

and tackles shall be included in the lump sum bid price and would be considered for the bid evaluation.

3.7 The Bidder shall furnish two complete sets of system and equipment instruction manuals and detailed installation operating and maintenance documentation along with the CDs for the same. Manuals shall describe system operation, shall include detailed system and components description and shall cover the installation, operation, care and maintenance of all system components including diagnostics. Complete parts lists including detailed instructions for ordering shall be furnished. Complete documentation for operating, system software, application programs, software selectable functions, shall be provided. After installation "as built" drawings shall be provided by the bidder indicating the access points , access point details, controller detail, actual configuration & parameters, etc.

3.8 The exact siting of equipment's shall be determined by the site Engineer in consultation with National Book Trust, India. The contractor shall prepare his proposed system and estimate the quantities for access point and other related components to be used.

3.9 The Bidder shall perform the Services and carry out their obligations with all due diligence, efficiency, and economy, in accordance with generally accepted professional techniques and practices, and shall observe sound management practices, and employ appropriate advance technology and safe methods. The Bidders shall always act, in respect of any matter relating to this Contract or to the Services, as faithful advisers to the Client and shall at all times support and safeguard the Client's legitimate interests in any dealings with Sub-bidders or third parties.

3.10 The Bidder shall furnish complete, well-fabricated and reliably operating and secure centralized systems as described in this document. Design and selection of equipment and software shall be consistent with the requirements of long term trouble free operation with highest degree of reliability and maintainability. All equipment shall be constructed to operate safely without undue heating, vibration, wear, corrosion, electromagnetic interference or similar problems and all software shall be proven, tested and reliable.

3.11 VOID

3.12 All equipments & accessories supplied under this contract shall be in accordance with the latest applicable recommendations, regulations and standards of:

- CCITT/ITU
- ANSI
- IEC
- IEEE
- IETF
- EIA/TIA 568 Standards
- International Electro-technical Commission (IEC)

Listed and verified

For parameters not covered under the above codes, internationally acceptable standards shall be accepted. The bidder shall furnish a complete list of all standards and codes under which his equipment is designed, manufactured and assembled along with the bids.

3.13 The equipment's to be supplied shall operate without any deviation in quality or degradation of system performance and all the parameters detailed in these specifications shall be guaranteed over the following environmental conditions.

- | | |
|-----------------------|------------------------------|
| Operating Temperature | : 0 degree C to 45 degree C. |
| Humidity | : 95% RH(non condensing) |

3.14 Reliable over voltage and over current protection circuits shall be provided in the equipment power supply units. The equipment power supply units shall be self protecting and also protect connected equipment's against interference, noise, voltage dips and surges & impulses that may be present in the mains power supply sources. Equipment shall be guaranteed for operation over the following AC power range to be made available by the owner:

240 V AC +/-10%, 50 Hz +/- 5%

The owner shall provide suitable AC power at a single power point at each of the locations and distribution of this power to the various equipment's shall be responsibility of the bidder for which necessary distribution board, cable etc. shall be provided by the bidder.

4.0 Bill of Material

Bill of material included is given below:

Sl. No.	Description	Quantity
A.	Active Components for Office and Presentation Block & Store and Housing block	
1.	Wireless LAN Controller (Standard a/b/g/n Draft 2.0)	1
2.	802.11a/b/g Dual Radio (simultaneous operation) Access Port with Integrated Antennas	9
3.	Access Point (Compliant to 802.11 a/b/g and n Draft 2.0 with MIMO support)	4
4.	Wireless PCI card, 108 Mbps,802.11 a/b/g, 2.4 GHz radio band (Should be of same make/company as of Wireless LAN Controller and AP)	120
5.	L3 Manageable Switch	1
B.	Passive Components	
1.	UTP Cat 6 Cable Roll of 305 meters (for establishing connectivity from Wireless Controller to Access Points)	4
2.	PVC Conduit	As Required
3.	Racks (36 U)	1
4.	Crimping Tool	1
C.	Server and UPS	
1.	5 KVA on Line UPS with 30 minutes battery backup	1
2.	Server for Computer Cell	1
D.	Network Management tool/software for Centrally Managing, Monitoring and trouble shooting the offered Wireless LAN System.	1
E.	Others (such as Licenses Cost/Total labor cost involved/service charges etc.)	As required

5.0 Specification of Components

5.1 Technical Specification for Wireless LAN Controller

- 5.1.1 Wireless LAN Controller must support at least 50 Access Points per Controller.
- 5.1.2 Wireless Protocol Support for IEEE 802.11 a, 802.11 b, 802.11 g, 802.11 d, 802.11 h, 802.11 n.
- 5.1.3 Must support IEEE802.3 10 Base-T, IEEE802.3u 100 Base-TX, IEEE 802.1Q

VLAN Tagging and IEEE 802.1 D Spanning Tree Protocol.

5.1.4 Security Standards Supported :

- 5.1.4.1 WPA
- 5.1.4.2 IEEE 802.11 i (WPA2)
- 5.1.4.3 RFC 1321 MD5 Message-Digest Algorithm
- 5.1.4.4 RFC 1851 The ESP Triple DES Transform
- 5.1.4.5 RFC 2104 HMAC: Keyed Hashing for Message Authentication
- 5.1.4.6 RFC 2246 TLS Protocol Version 1.0
- 5.1.4.7 RFC 2401 Security Architecture for the Internet Protocol
- 5.1.4.8 RFC 2403 HMAC-MD5-96 within ESP and AH
- 5.1.4.9 RFC 2404 HMAC-SHA-1 -96 within ESP and AH
- 5.1.4.10 RFC 2405 ESP DES-CBC Cipher Algorithm with Explicit IV
- 5.1.4.11 RFC 2406 IPsec
- 5.1.4.12 RFC 2407 Interpretation for ISAKMP
- 5.1.4.13 RFC 2408 ISAKMP
- 5.1.4.14 RFC 2409 IKE
- 5.1.4.15 RFC 2451 ESP CBC-Mode Cipher Algorithms
- 5.1.4.16 RFC 3280 Internet X.509 PKI Certificate and CRL Profile
- 5.1.4.17 RFC 3602 The AES-CBC Cipher Algorithm and Its Use with IPsec
- 5.1.4.18 RFC 3686 Using AES Counter Mode with IPsec ESP

5.1.5 Encryption Standards Supported :

- 5.1.5.1 WEP and TKIP-MIC: RC4 40, 104 and 128 bits (both static and shared keys).
- 5.1.5.2 SSL and TLS: RC4 128-bit and RSA 1024- and 2048-bit
- 5.1.5.3 AES: CCM, CCMP
- 5.1.5.4 IPsec: DES-CBC, 3DES, AES-CBC

5.1.6 Authentication, Authorization and Accounting (AAA) Standards Supported.

- 5.1.6.1 IEEE 802.1X
- 5.1.6.2 RFC 2548 Microsoft Vendor-Specific RADIUS Attributes
- 5.1.6.3 RFC 2716 PPP EAP-TLS
- 5.1.6.4 RFC 2865 RADIUS Authentication
- 5.1.6.5 RFC 2866 RADIUS Accounting
- 5.1.6.6 RFC 2867 RADIUS Tunnel Accounting
- 5.1.6.7 RFC 2869 RADIUS Extensions
- 5.1.6.8 RFC 3576 Dynamic Authorization Extensions to RADIUS
- 5.1.6.9 RFC 3579 RADIUS Support for EAP
- 5.1.6.10 RFC 3580 IEEE 802. IX RADIUS Guidelines
- 5.1.6.11 RFC 3748 Extensible Authentication Protocol
- 5.1.6.12 Web-based authentication

5.1.7 Management

Supports the following :

- 5.1.7.1 SNMPv1,v2c, v3
- 5.1.7.2 RFC 854 Telnet
- 5.1.7.3 RFC 1155 Management Information for TCP/IP-Based Internets
- 5.1.7.4 RFC1156MIB
- 5.1.7.5 RFC1157SNMP
- 5.1.7.6 RFC 1213 SNMP MIB II

- 5.1.7.7 RFC1350TFTP
- 5.1.7.8 RFC 1643 Ethernet MIB
- 5.1.7.9 RFC 2030 SNMP
- 5.1.7.10 RFC 2616 HTTP
- 5.1.7.11 RFC 2665 Ethernet-Like Interface types MIB
- 5.1.7.12 RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual LAN Extensions
- 5.1.7.13 RFC2819RMONMIB
- 5.1.7.14 RFC 2863 Interfaces Group MIB
- 5.1.7.15 RFC3164Syslog
- 5.1.7.16 RFC 3414 User-Based Security Model (USM) for SNMPv3
- 5.1.7.17 RFC 3418 MIB for SNMP
- 5.1.7.18 RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs

5.1.8 Management Interfaces :

- 5.1.8.1 Web-Based: HTTP/HTTPS
- 5.1.8.2 Command-line interface : Telnet, SSH, Serial Port.

5.1.9 Interfaces

- 5.1.9.1 Uplink : 2 or 4 1000 Base-X Transceiver slots.
- 5.1.9.2 Utility Port: 10/100/1000 Mbps Ethernet (RJ-45)
- 5.1.9.3 Service Port: 10/100/1000 Mbps Ethernet (RJ-45)
- 5.1.9.4 Expansion Slots 1 or 2

5.2 Technical Specification for Access Point (802.11 a/b/g)

- 5.2.1 Lightweight Access Points, fully compatible with above stated (Clause 5.1) Controllers.
- 5.2.2 Must have 802.11 a and 802.11 g Radios in a Single Access Point and should support simultaneous operation of dual radios.
- 5.2.3 Network standard IEEE 802.11 a, 802.11 b and 802.11 g.
- 5.2.4 Frequency Band 2.4 Ghz and 5.0 Ghz.
- 5.2.5 Must support Variable Transmit Power Settings on all Radios.
- 5.2.6 Must provide 108 Mbps of capacity in a single device and must be backward compatible to 802.11 b Clients.
- 5.2.7 Radio must be able to mitigate the effects of multipath signal propagation for more consistent coverage.
- 5.2.8 Integrated Antenna 2.4 Ghz Gain 3.0 dBi, Horizontal Beamwidth 360 Degrees, 5 Ghz Gain 4.5 dBi, Horizontal Beamwidth 360 Degrees.
- 5.2.9 Hardware Assisted AES Encryption.
- 5.2.10 Management Frame Protection, must provide authentication of 802.11 management frames by the wireless network infrastructure.
- 5.2.11 The system shall have a 10/100BaseTX Ethernet interface for unlinking.
- 5.2.12 IEEE 802.11 i-Compliant; WPA2 Certified and WPA Certified.
- 5.2.13 Multipurpose and lockable mounting bracket, Installs easily to Walls, Ceilings, and suspended ceiling railways. Must accommodate standard padlock to prevent theft.

5.2.14 Inline Power Support (IEEE 802.3 af) must be supported.

5.2.15 Security Standards Support for Authentication :

- 5.2.15.1 WPA
- 5.2.15.2 WPA2(802.11i)
- 5.2.15.3 TKIP
- 5.2.15.4 Message Integrity check (MIC)
- 5.2.15.5 IEEE 802.11 WEP keys of 40 bits and 128 bits

5.2.16 802.1X EAP Types:

- 5.2.16.1 EAP-Flexible Authentication via secure Tunneling (EAP-FAST)
- 5.2.16.2 Protected EAP-Generic Token Card (PEAP-GTC)
- 5.2.16.3 PEAP-Microsoft Challenge Authentication Protocol version 2 (PEAP-MSCHAP)
- 5.2.16.4 EAP-Transport Layer Security (EAP-TLS)
- 5.2.16.5 EAP-Tunneled TLS (EAP-TTLS)
- 5.2.16.6 EAP-Subscriber Identity Module (EAP-SIM)
- 5.2.16.7 LEAP

5.2.17 Encryption :

- 5.2.17.1 AES-CCMP encryption (WPA2)
- 5.2.17.2 TKIP (WPA)
- 5.2.17.3 WPA TKIP
- 5.2.17.4 IEEE 802.11 WEP

5.2.18 System Memory:

- 5.2.18.1 32 MB RAM or higher
- 5.2.18.2 16 MB Flash or higher

5.2.19 WIFI Certified :WIFI Certified

5.3 Technical Specification for 802.11 A/B/G & N Draft 2.0 Access Points

- 5.3.1 Access Points must work with full efficiency with the above stated Wireless Network Controller used with Lightweight Access Points.
- 5.3.2 The wireless system should support multi-service applications like voice, video & data.
- 5.3.3 Must support 2 x 3or 3 x 3 MIMO radio antenna in a Single Access Point.
- 5.3.4 Network standard IEEE 802.11 a, 802.11b , 802.11 g and 802.11 n draft 2.0.
- 5.3.5 Frequency Band 2.4 Ghz and 5.0 Ghz.MIMO technology, with its multiple antennas (2 x 3or 3 x 3 MIMO antenna) and advanced signal processing
- 5.3.6 Must support Variable Transmit Power Settings on all Radios.

- 5.3.7 With both 2.4-GHz and 5-GHz 802.11n draft 2.0 standard radio modules, the access point should deliver total data rates of up to 600 Mbps.
- 5.3.8 Integrated MIMO technology provides more reliable coverage and greater throughput for both existing 802.11a/b/g clients and new 802.11n clients in even the most challenging wireless environments
- 5.3.9 Radios must be able to take full advantage (as per 802.11n draft 2.0) of RF multipath signal propagation for increasing the reliability and consistent coverage.
- 5.3.10 Hardware Assisted AES Encryption.
- 5.3.11 IEEE 802.11 i-Compliant; WPA2 Certified and WPA Certified.
- 5.3.12 Multipurpose and lockable mounting bracket, Installs easily to Walls, Ceilings, and suspended ceiling railways. Must accommodate standard padlock to prevent theft.
- 5.3.13 Must have Gigabit Ethernet (10/100/1000) interface
- 5.3.14 Inline Power Support (IEEE 802.3 af), POE & Local power options must be supported.
- 5.3.15 **Authentication :**
 - 5.3.15.1 WPA
 - 5.3.15.2 WPA2(802.11i)
 - 5.3.15.3 TKIP
 - 5.3.15.4 Message Integrity check (MIC)
 - 5.3.15.5 IEEE 802.11 WEP keys of 40 bits and 128 bits
- 5.3.16 **802.1X EAP Types:**
 - 5.3.16.1 EAP-Transport Layer Security (TLS)
 - 5.3.16.2 EAP-Tunneled TLS(TTLS)/Microsoft Challenge Handshake Authentication Protocol Version 2 (MSCHAPv2)
 - 5.3.16.3 Protected EAP (PEAP)v0/EAP-MSCHAPv2
 - 5.3.16.4 PEAPv1/EAP-Generic Token Card (GTC)
 - 5.3.16.5 EAP-SIM
- 5.3.17 **Encryption :**
 - 5.3.17.1 AES-CCMP encryption (WPA2)
 - 5.3.17.2 TKIP (WPA)
 - 5.3.17.3 WPA TKIP
 - 5.3.17.4 IEEE 802.11 WEP
- 5.3.18 **System Memory:**
 - 5.3.18.1 64 MB DRAM or higher
 - 5.3.18.2 32 MB Flash or higher
- 5.3.19 **WIFI Certified :**WIFI Certified

5.4 Network Management tool/software for Centrally Managing, Monitoring and trouble shooting the offered Wireless LAN System.

5.4.1 Network Management Software for proposed Wireless LAN Infrastructure.

(to be supplied alongwith a server as per specified configuration)

Commercial grade NMS, GUI driven which can manage proposed Wireless LAN System.

Hardware & OS compatibility

- NMS software should be compatible to desk top PC with Pentium II to IV or above, with 32 to 512 MB RAM and 10 to 20 GB HDD Windows 98/XP professional/Vista OS or higher. It should be able to manage the proposed **Wireless LAN** equipment.

NMS software Requirements

- NMS should work on multiple operation platforms and should offer integrated functions like device management, VPN monitor/deployment, software upgrades management, configuration file management and fault and performance management. User group-based privilege management:

Centralized network monitoring

- For centralized network monitoring functions NMS should support :-
- Unified topology view of devices in network - physical & logical topology shows every wireless network element and its connection
- Automated topology discovery with dynamic topology map refresh single click on topology map nodes opens device panel view
- Inform network, link or device status change by topology color change prompt
- Polling the entire network periodically with configured time interval
- Topology filtering filters network device users most concern
- Fast query of topology nodes and locate it in navigation tree & topology view
- Network auditing: Network administrators can audit wireless LAN controller and access point configurations by network location, mobility group, or device.

Network Configuration Center

- The NMS should provide the following functionality: -
- Managing various types and configuration of devices. Managing quick recoveries from failures and upgrades / software updates of devices.
- Network Configuration Center to implement configuration file backup/restore, bulk update, base-lining configuration file, enabling trace & comparison of configuration file changes.
- Query current version of software on device.
- Analyze prerequisites for upgrade
- Centralize backup device software versions
- Unified upgrade device software - Searching out devices with lower version according to defined version criteria for any upgrade operation.
- Bulk device upgrade
- Upgrade authentication

Device Management and fault detections

- NMS's Device Manager module to provide network element management for routers. Panel management, configuration functionality, query and monitoring of various services should provide user with an easy and convenient way to monitor device runtime state and locate device failure.
- NMS should support for most port faults and location detection tools, path tracking and port loopback tests.
- NMS should support MAC address / IP address port backward searching to locate the original port forwarding illegal packet and then disable it in time.

Remote management

- NMS should support for RMON management to conduct device remote monitoring compliant with RMON-MEB standard.
- Statistics groups configuration and data browsing
- History groups configuration and data browsing
- Alarm groups configuration and data browsing
- Event groups configuration and data browsing
- Extended alarm groups configuration and data browsing

5.4.2 Additional Features / Software system for Wireless Network Management System.

- Must support Intuitive GUI and simplified ease-of-use so that IT staff can easily configure, monitor, and troubleshoot their wireless networks with minimal training.
- Hierarchical maps Creation so IT staff can quickly access different buildings, floors, and regions for better visibility and control.
- Policy management templates for Uniform QoS, security, and Radio Frequency (RF) management policies can be easily created and enforced across an entire enterprise or deployment including outdoor mesh deployments. This should be done in a scalable fashion using global templates.
- Complete wireless LAN intrusion detection and LAN protection using Customized signature files to protect against unauthorized intrusion and RF attacks; automated alarms to enable rapid response to mitigate risk Secure access Authentication and authorization. Support other firewall services also.
- Client troubleshooting using which Network administrators can quickly and easily troubleshoot problems with a client, debugging Layer 1 to Layer 3 client problems using a step-by-step method.
- Reporting with extensive customizable reports to allow network managers to monitor network activity and system information including inventory, performance, security, access points, clients, radio utilization, 802.11 counters, RF management, configuration history, and alarms.
- Must support Windows, Linux systems. Customizable secure guest access: Organizations can keep their wireless networks secure while providing customers, vendors, and partners with controlled access to their Wireless LANs.
- Wireless LAN planning tools: Accurate RF prediction tools to increase the effectiveness of wireless LAN planning and Design.

5.5 Layer 3 Manageable Switch

- i) The Switch offered by the bidder shall be chassis based fully SNMP managed device with support for SNMP Agent MIB, MIBII, RMON support for history, statistics, alarm and events.
- ii) The device offered should be 19" Rack mountable.
- iii) The Switch shall have support
 - Twenty-four 10/100 PoE ports for desktop, wireless, IP telephony, or closed-circuit TV camera connectivity
 - Two 10/100/1000 BASE-T or SFP ports for uplink or server connectivity
- iv) All the ports on the Switch shall be offered with requisite connecting cables and Trans receivers, if any for termination.
- v) The Switch shall support Virtual Networking and Virtual LAN Management feature. It shall be possible to form workgroup of users. Reconfiguration of workgroup and physical relocation of users shall be achievable by on-screen management software features like Moves, Adds etc. Multi-cast and Broadcast
- vi) Other Technical Parameters shall be as follows:
 - MAC Addresses: 8000
 - Layer III Switching for IP: Supporting Routing Protocols
RIP, OSPF at wire speed.
 - VLAN: support for atleast 32 VLANs.
 - Protocols: IEEE 802.1Q Trunking
 - IEEE 802.1D multiple Spanning Tree group
 - IEEE 802.3ad Link Aggregation or equivalent
 - IEEE 802.1p (Priority Queues)
 - IEEE 802.1x security,
 - Management: Through Telnet, HTTP and NMS.
- vii) Inline Power (PoE): All 24 PoE ports on the switch can supply up to 15.4W (IEEE 802.3af standard maximum) of power over Category 6 cable, for a total of 370W of inline power. Both the IEEE 802.3af PoE standard and Inline Power are supported.

5.6 Cabling and Accessories

5.6.1 UTP Cabling System

The Bidder shall be required to offer a Category-6 Structured Cabling System using Cables, connectors and Components complying to EIA/TIA 568-B2.1, EIA/TIA TSB-36, EIA/TIA TSB-40A and SP-2840A standards and specifications for Category-6. All Cables, cabling accessories Connectors and Components are required to be UL(Underwriters Laboratory) verified for Cat- 6. Bidders shall provide necessary protective components in case of outside cabling for protection of equipments against lighting etc.

Category-6 UTP CABLES

All Cables supplied by the bidder shall have to be laid as per the requirement of the Owner. It will be the total responsibility of the bidder to erect and lay the ordered cables in PVC conduits/PVC channels within building and in MS Pipes outside the building wherever required or as per the requirements of the Owner. The PVC conduits shall be ISI approved.

UTP Cabling System

The twisted pair cable level 6 type offered by the bidder shall be of solid copper, unshielded twisted pair type with gauge of 24 AWG and impedance of 100 ohms for 100 meters length.

The offered cable should meet standards/specifications defined by EIA/TIA-568-B2.1, ISO/IEC 11801(2002) and CENELEC EN50173-1 (2002). The physical and electrical specifications are as listed below:-

Type	Unshielded twisted pair cabling system, TIA / EIA 568-B.1 addendum Category 6 Cabling system
Networks Supported	10 / 100 Ethernet, 155 Mbps ATM, 1000 Mbps IEEE 802.3ab Ethernet, and proposed Cat 6 Gigabit Ethernet
TIA / EIA 568-B.1	ETL Verified
IEEE 802.3ab	Zero-bit Error, ETL verified
Warranty	25-year systems warranty; Warranty to cover Bandwidth of the specified and installed cabling system, and the installation costs
Performance characteristics to be provided along with bid	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR for 4-connector channel

UTP Cable

Type	Unshielded Twisted Pair, Category 6, TIA / EIA 568-B.2
Material:	
Conductors	24 AWG solid bare copper
Insulation	Polyethylene
Separator	Should be a cross filler. Any other filler type, like bidirectional strip would not be acceptable.
Jacket	Flame Retardant PVC
Approvals	UL Listed
	ETL verified to TIA / EIA Cat 6
Operating Temperature	-20 Deg. C to +60 Deg. C
Frequency tested Up to	600 MHz
Packing	Box of 305 meters
Delay Skew	25ns / 100m MAX.
Impedance	100 Ohms + / - 15 ohms
Performance characteristics to be provided along with bid	Attenuation, Pair-to-pair and PS NEXT, ELFEXT and PSELFEXT, Return Loss, ACR and PS ACR

5.6.2 Jack

The Bidder shall provide & configure Jack adhering to International design & quality standards. Configuration shall be so structured so as to provide desired number of user ports (as specified in Bill of Quantities).

UTP Jacks

Type	PCB based, Unshielded Twisted Pair, Category 6, TIA / EIA 568-B.2
Durability	
Modular Jack	750 mating cycles
Wire terminal	

Accessories	Strain relief and bend-limiting boot for cable
	Integrated hinged dust cover
Materials	Poly-phenylene oxide, 94V-0 rated
Writing blocks	Polycarbonate, 94V-0 rated
Jack contents	Phosphorous bronze plated with 1.27 micro-meter thick gold
Approvals	UL Listed
Performance characteristics to be provide with bid	Attenuation, NEXT, PS NEXT, FEXT and Return Loss

5.7 Racks

Bidder shall include 19" floor mounted Racks of 36 U and 6 U with key lockable doors (for security reasons) for housing the jack panels and Switch stack. Racks shall include power distribution arrangement, fan tray with fans, earthing kit, mounting accessories etc.

5.8 Online UPS

One on-line UPS shall be provided for providing power supply to Central LAN Controller and server to be installed in Computer Cell. All cabling from this UPS to various floors shall be included in the scope of this offer. Capacity of the UPS has been estimated as 5kVA for bid evaluation purposes. However, Bidder shall provide the exact Power requirements of system and quote alternative prices for the required UPS system. .

- Input voltage 230V Single Phase
- Input voltage range 160-270V
- Frequency 50Hz
- Frequency range 47Hz-53Hz
- Output Power 1KVA
- Nominal Voltage 230V Single Phase
- Voltage Regulation + 1.0%
- Nominal Output Frequency 50Hz
- Frequency stability + 0.1%
- Load power factor 0.8% Lag to unity
- True Online
- Battery Backup 30 Mins
- Battery Type SMF Battery
- Operating Temperature 0 to 45 degree C
- Humidity 95% Non-condensing

5.9 PVC Conduit etc.

The PVC Conduit/etc. shall be supplied and laid on actual requirement basis at Site and lumpsum price for the same shall be included in the price bid.

5.10 Specification of Server for Computer Cell Server

	Specification	Model /Make	Qty
	Form factor/height	Tower/5U	1
	Processor (L2 cache/CPU GHz/front-side bus	Quad-Core Intel Xeon (2x4MB/2.13 GHz/1066 MHZ), or AMD quade core equivalent.	

MHz max)			
Number of processors (std/max)	1 X 2		
Memory (max) ¹	16 GB double data rate DDR II 667 MHz		
Expansion slots	3 PCI and 2 PCI-Express(x8,X1) Dedicated RSA II slot , Slotless hardware RAID-0, -1		
Disk bays total/hotswap	Four 3.5" simple swap or hot-swap SATA hard disk drives or Four 2.5" or 3.5" hot-swap SAS hard disk drives		
Maximum internal storage ^{1, 2}	Up to 1.2TB SAS HDDs, or up to 3.0TB SATA HDDs		
Network interface	Integrated Gigabit Ethernet (GbE)		
Power supply (std/max)	430W hot-swap redundant 2/2 (model dependent) Redant fan kit		
Hot-swap Components	Hard disk drives, power supplies (model dependent),DVD Combo drive.		
RAID support	Integrated hardware RAID-0, Optional upgrade to RAID-10		
Port	Front: Two USB, Rear :Four USB; two Ethernet; Two serial; One parallel; Keyboard and mouse		
Systems management	IPMI 1.5-compliant mini-BMC, Server Guide™, and optional Remote Deployment Manager		
Monitor	17" TFT monitor		
Operating systems supported	Microsoft® Windows® Server™ 2003 Standard Edition/Enterprise Edition, Windows Small Business Server 2003, Red Hat Enterprise Linux®, SUSE Linux Enterprise Server, Novell NetWare 6.5, OS 4690		
Operating System	Microsoft® Windows® Server™ 2008 Enterprise Edition with 5 user licence		
Warranty	3-year onsite warranty with product support		

**SECTION-V
BID SCHEDULES**

**Annexe 5.1.1
(Technical Bid)**

BID PARTICULARS

1. Name of the Tenderer : _____
2. Full Address of the Tenderer : _____

3. Name of the actual signatory : _____
4. Tenderer's proposal number and date : _____
5. Name & address of the officer to whom all references shall be made regarding this tender : _____

- Telephone : _____
- Fax No. : _____
- e-mail : _____

Witness :
Signature
Name
Address

Company
Date

Tenderer :
Signature
Name

Designation
Date
Company Seal

**Annexe 5.1.2
(Technical Bid)**

Technical Bid Letter

The Director,
National Book Trust, India
A-5 Green Park, Delhi-110016
Ref : Tender No:

Madam,

We declare that:

1. We are an established Contractor in the area of supply and installation of Wireless Networking equipment/ components on turnkey basis.
2. We hereby offer to provide the material and services in line with tender document at the prices and rates mentioned in the Price Bid.
3. We do hereby undertake, that, in the event of acceptance of our bid, the Services shall be provided as stipulated in the Tender document and that we shall perform all the incidental services.
4. We enclose herewith the complete Technical Bid as required by you. This includes:
 - i) Bid Particulars (Annexe 5.1.1)
 - ii) Bid Letter (Annexe 5.1.2)
 - iii) Proposed Methodology (Annexe 5.1.3)
 - iv) Statement of Deviation from Technical Specification (Annexe 5.1.4)
 - v) Statement of Deviation from Tender Terms and Conditions (Annexe 5.1.5)
 - vi) Vendor Profile (Annexe 5.1.6)
5. We agree to abide by our offer for a period of 120 days from the date fixed for opening of the Technical Bids.
6. We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender and we do hereby undertake to provide services as per these terms and conditions. The deviations from the Technical Specifications are only those mentioned in Annexure 5.1.4. The deviations from the terms and conditions are only those mentioned in Annexure 5.1.5.
7. Certified that the tenderer is a company constituted under the Companies Act, 1956 and the person signing the tender is the constituted attorney.
8. Bid Security (Earnest Money) for an amount equal to Rs. 100, 000 (Rupees One Lakh only) is enclosed in the Cover containing the letter for Prequalifying Requirements in the form specified in Clause 12 of Section II.
9. We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and placement of letter of intent awarding the contract, shall constitute a binding contract between us.

Dated this day _____ of 200_

Signature of Tenderer
Name & Designation:
Company Seal

(Technical Bid)

DETAILED TECHNICAL PROPOSAL

(Detailed technical proposal giving clause-wise compliance to Tender Documents, Bill of Material, make, model, technical data sheets, methodology and installation work etc. to be given)

Dated this day _____ of 200_

Signature of Tenderer
Name & Designation:
Company Seal

**Annexe 5.1.4
(Technical Bid)**

STATEMENT OF DEVIATIONS FROM TECHNICAL SPECIFICATION

Dear Sirs,

Following are the Technical deviations and variations from the Technical Specification (Section-IV)

Clause No./Page No.	Bid Requirement	Deviation

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

Dated this day _____ of 200_

Signature of Tenderer
Name & Designation:
Company Seal

STATEMENT OF DEVIATIONS FROM TENDER TERMS AND CONDITIONS

Dear Sirs,

Following are the Technical deviations and variations from the Terms and Conditions of the Tender Document (Section-II & III)

Clause No./Page No.	Bid Requirement	Deviation

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

Dated this day _____ of 200_

Signature of Tenderer
Name & Designation:
Company Seal

VENDOR PROFILE

1 Name of the Firm/Company

2 Year Established

3 Address of Office

4 Telephone No.

5 Fax No.

6 E-mail Address

7 Website

8 Names of Govt. Deptt ./Public Sector/Pvt. Sector/International clients to whom

The tenderer has provided similar services to

(i)

(ii)

(iii)

(iv)

(v)

9 No. of full time personnel currently under employment (Department wise)

Total in India

Total in Delhi/NCR

(i)

(ii)

(iii)

10 Name of the affiliated Firms

(i)

(ii)

(iii)

11 No. of years of Proven experience of providing similar Services in India.

12 Infrastructure facilities in India so as to serve all over India

13. Annual turnover

Audited Annual turnover of the company in Rs. During last two years F.Y. Turnover

2006-2007

2007-2008

14. List of customers in India and also international customers, as on date, to whom the Tenderer is currently providing Similar services

16.Any accreditation / rating from an internationally reputed third party rating agency.

17Various Ceritifications (ISO Certificaton/Six Sigma/Nasscom/DOT Registered)

Dated this day _____ of 200_

Signature of Tenderer

Name & Designation:

Company Seal

Price Bid Letter

The Director,
National Book Trust, India
A-5 Green Park, Delhi-110016
Ref : Tender No:

Madam,

Having examined the Tender Document, we, the undersigned, offer to provide material and services in conformity with the Tender Document No. _____ dated _____ 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.

2. We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Tender Documents.

If our bid is accepted, we will obtain the guarantee of a bank in a sum equivalent to 10% percent of the Contract Price for the due performance of the Contract, in the form prescribed by the Purchaser.

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

4. We enclose herewith the Price Schedule in the prescribed form

5. We agree to abide by our offer for a period of 120 days from the date fixed for opening of the Technical Bid

6. We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender and we do hereby undertake to provide services as per these terms and conditions. The Deviations are only those mentioned in Annexures 5.1.4 and 5.1.5.

7. Certified that the tenderer is a company and the person signing the tender is the constituted attorney.

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

Dated this day _____ of 200_

Signature of Tenderer
Name & Designation:
Company Seal

**Annexe 5.2.2
(Price Bid)**

Price Schedule

Figures in Rupees

Sl. No.	Description	Quantity	Unit Rate	Taxes	Total Unit Rate inclusive of Taxes	Total Amount
A.	Active Components for Office and Presentation Block & Store and Housing block					
1.	Wireless LAN Controller (Standard a/b/g/n Draft 2.0)	1				
2.	802.11a/b/g Dual Radio (simultaneous operation) thin Access Port with Integrated Antennas	9				
3.	Access Point (Compliant to 802.11 a/b/g and n Draft 2.0 with MIMO support)	4				
4.	Wireless Adapter card, 802.11 a/b/g, 108 Mbps, 2.4 GHz radio band (Should be of same LAN make/company as of Wireless Controller and AP)	120				
5.	L3 Manageable Switch	1				
B.	Passive Components					
1.	UTP Cat 6 Cable Roll of 305 meters (for establishing connectivity from Wireless Controller to Access Points)	4				
2.	PVC Conduit	As Required				
3.	Racks(36 U)	1				
4.	Crimping Tool	1				
C.	Server and UPS					
1.	5 KVA on Line UPS with 30 minutes battery backup	1				
2.	Server for Computer Cell	1				
D.	Network Management tool/software for Centrally Managing, Monitoring and trouble shooting the offered Wireless LAN System.	1				
E.	Others (such as Licenses Cost/Total labor cost involved/service charges etc.)	As Required				
	Grand Total					

Total Bid Price In Indian Rupees (In Words Rupees -----)

Note: In case of discrepancy, unit rate will prevail

Dated this day of 200

Signature of Tenderer
Name & Designation:
Company Seal

BID SECURITY FORM

Whereas ----- (hereinafter called 'the Tenderer') has submitted its bid dated ----- for Wireless Local Area Networking (WLAN) in National Book Trust, India offices located at Plot no 5, Phase II, Institutional Area, Vasant Kung, New Delhi (hereinafter called "the Bid").

KNOW ALL MEN by these presents that WE ----- of ----- having our registered office at ----- (hereinafter called "the Bank") are bound unto the Director, National Book Trust, India, A-5Green Park, New Deli-16 hereinafter called "the Purchaser") in the sum of Rs./- 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 -----2008.

THE CONDITIONS of this obligation are:

1. If the Bidder, withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; 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 instructions to Bidders;

We undertake to pay to 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 45 days after the period of bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

(Authorized Signatory of the Bank)

**PROFORMA OF BANK GUARANTEE FOR
CONTRACT PERFORMANCE GUARANTEE BOND**

Ref : _____

Date _____

Bank Guarantee No. _____

To

1. Against contract vide Advance Acceptance of the Tender No :
..... covering -----
----- (hereinafter called the said 'contract')
entered into between the Director , National Book Trust India, New Delhi - 110016
(hereinafter called the Client) and _____(hereinafter called the
Vendor) this is to certify that at the request of the Vendor we ----- Bank Ltd.,
are holding in trust in favour of the Purchaser, the amount of
_____ (write the sum here in words) to indemnify and keep
indemnified the Purchaser against any loss or damage that may be caused to or
suffered by the Purchaser by reason of any breach by the Vendor of any of the terms
and conditions of the said contract and/or in the performance thereof. We agree that
the decision of the Purchaser, whether any breach of any of the terms and conditions
of the said contract and/or in the performance thereof has been committed by the
Vendor and the amount of loss or damage that has been caused or suffered by the
Purchaser, shall be final and binding on us and the amount of the said loss or
damage shall be paid by us forthwith on demand and without demur to the
Purchaser.

2. We _____ Bank Ltd, further agree that the
guarantee herein contained shall remain in full force and effect during the period
that would be taken for satisfactory performance and fulfillment in all respects of
the said contract by the Vendor i.e till _____ hereinafter called the
said date and that if any claim accrues or arises against us _____
Bank Ltd, by virtue of this guarantee before the said date, the same shall be
enforceable against us **Tender Document for Wireless Local Area Networking (WLAN)**
in National Book Trust, India Offices
_____ Bank Ltd,
notwithstanding the fact that the same is enforced within six months after the said
date, provided that notice of any such claim has been given to us
_____ Bank Ltd, by the Purchaser before the said date. Payment
under this letter of guarantee shall be made promptly upon our receipt of notice to
that effect from the Purchaser.

3. It is fully understood that this guarantee is effective from the date of the said
contract and that we _____ Bank Ltd, undertake not to revoke this
guarantee during its currency without the consent in writing of the Purchaser.

4. We undertake to pay to the Purchaser any money so demanded notwithstanding
any dispute or disputes raised by the Vendor in any suit or proceeding pending
before any court or Tribunal relating thereto, our liability under this present bond
being absolute and unequivocal. The payment so made by us under this bond shall
be a valid discharge of our liability for payment thereunder and the Vendor shall
have no claim against us for making such payment.

5. We _____ Bank Ltd, further agree that the Purchaser shall have the fullest liberty, without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said contract or to extend time of performance by the Vendor from time to time or to postpone for any time or from time to time any of the powers exercisable by the Purchaser against the said Vendor and to forebear or enforce any of the terms and conditions relating to he said contract and we, _____ Bank Ltd., shall not be released from our liability under this guarantee by reason of any such variation or extension being granted to the said Vendor or for any forbearance by the Purchaser to the said Vendor or for any forbearance or omission on the part of the Purchaser or any other matter or thing whatsoever, which under the law relating to sureties, would, but for this provision, have the effect of so releasing us from our liability under this guarantee. **Tender Document for Wireless Local Area Networking (WLAN) in National Book Trust's Offices.**

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Vendor.

Date _____

Place _____

Signature _____

Witness _____

Printed name _____

(Bank's common seal)

CONTRACT FORM

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

Whereas the purchaser is desirous that -----

(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 and the Price Schedule submitted by the Bidder;
 - (b) the Tender Document including the Technical Specifications and the General Conditions of Contract;
 - (c) the Purchaser's Notification of Award.
 - (d) Correspondence (.....)
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:

SL. NO.	BRIEF DESCRIPTION OF GOODS & SERVICES	QUANTITY TO BE SUPPLIED	UNIT PRICE	Total PRICE	DELIVERY TERMS

TOTAL VALUE:

DELIVERY SCHEDULE:

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:.....

Check list

Please check whether following have been enclosed in the respective covers, namely, letter of Pre-qualification, Technical Bid and Price Bid:

A Pre-Qualification Letter

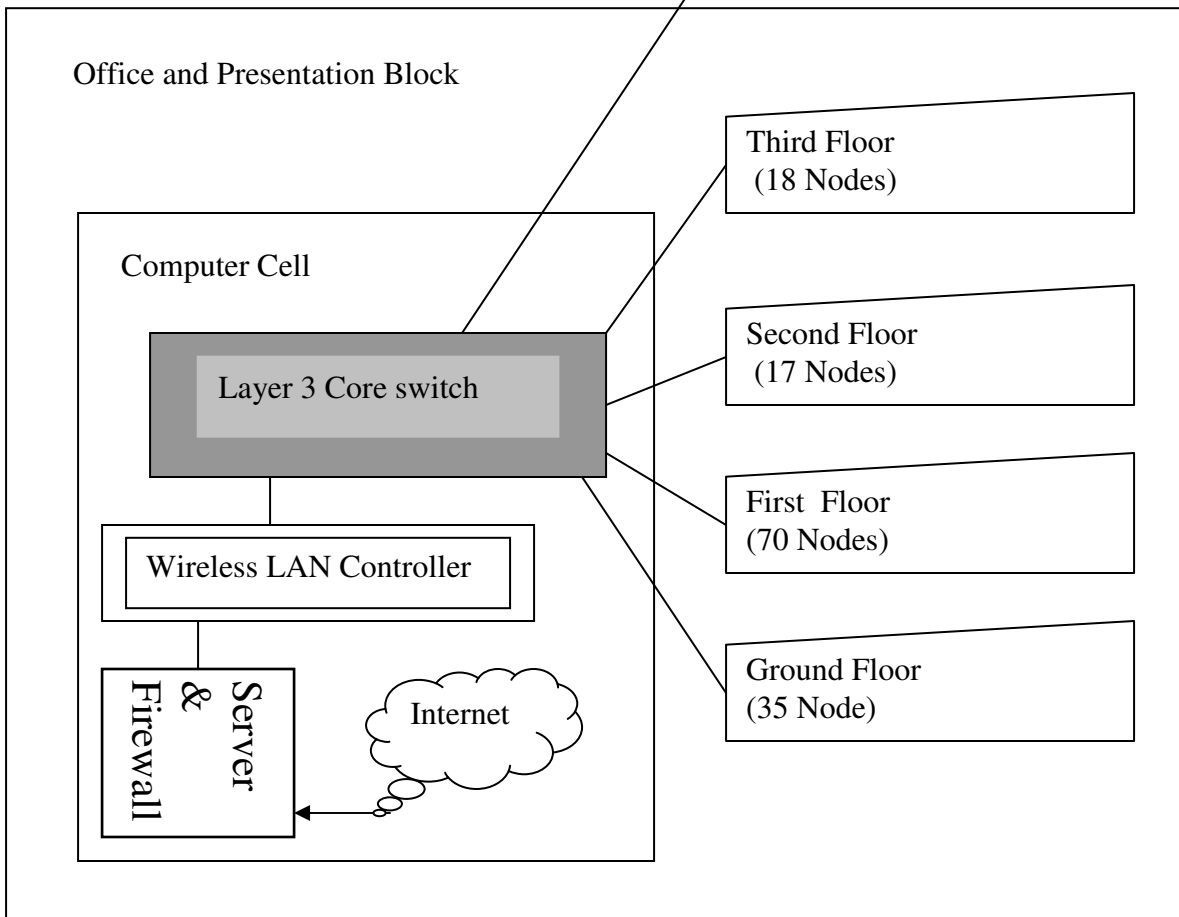
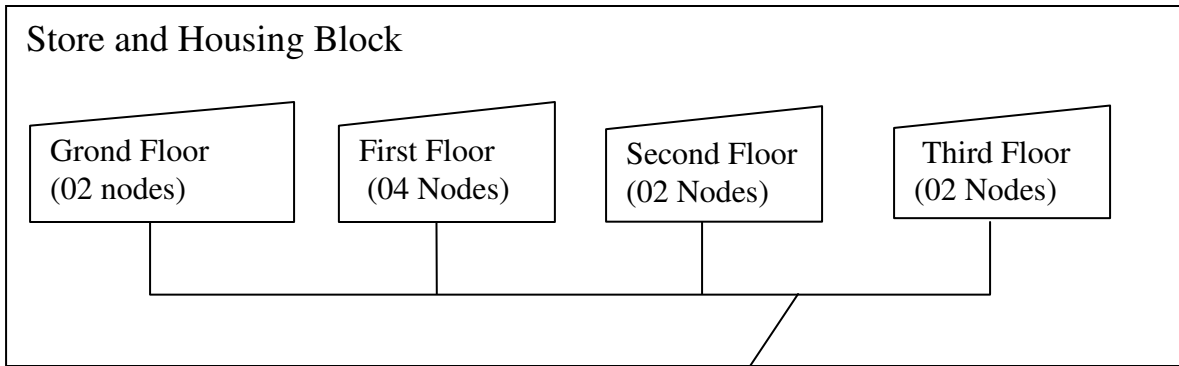
1.	Bid Security valid up to (date.....)	Yes/No	_____
2.	Evidence for experience (Clause 20.1(ii), Section II)	Yes/No	_____
3.	Evidence of Turn over (Clause 20.1(iv) Section II)	Yes/No	_____
4.	Technical Support facility details (Clause 20.1(iii) Section II)	Yes/No	_____
5.	MOA, AOA and commencement of Business Certificate. (Clause 20.1(v) Section II)	Yes/No	_____
6.	Authorization certificates from OEM (Clause 20.1(vi) Section II)	Yes/No	_____

B. Technical Bid

1.	Bid Particulars (Annexe 5.1.1)	Yes/No	_____
2.	Technical Bid Letter (Annexe 5.1.2)	Yes/No	_____
3.	Detailed Technical Proposal (Annexe 5.1.3)	Yes/No	_____
4.	Statement of Deviation(s) from Schedule of Requirements(Annexe 5.1.4)	Yes/No	_____
5.	Statement of Deviation(s) from Tender Terms and Conditions (Annexe 5.1.5)	Yes/No	_____
6.	Vendor Profile (Annexe5.1.6)	Yes/No	_____

C. Price Bid

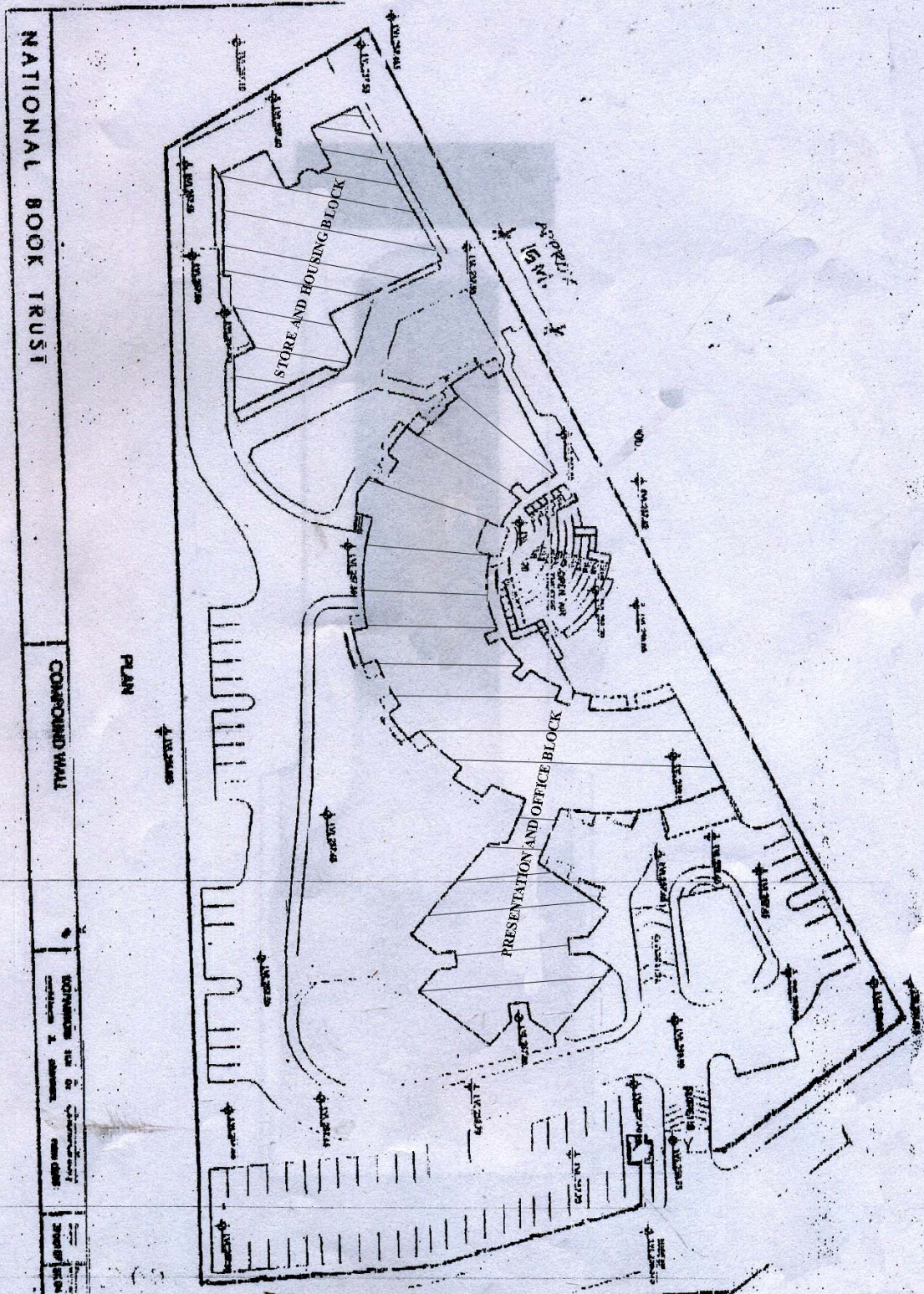
1.	Price Bid Letter (Annexe 5..2.1)	Yes/No	_____
2.	Price Schedule (Annexe 5.2.2)	Yes/No	_____



— Cat 6 Cable

WIRELESS NETWORKING HAS TO BE ESTABLISH IN THE SHADED AREA OF THE BUILDING SHOWN BELOW

NDP
From KRC 04/10/08



END OF TENDER DOCUMENT