



WIRELESS ACCESS POINTS TENDER - #471

Issue Date: June 3, 2011

Issued by: The Thames Valley District School Board

T#471

Angela McManus, Buyer

RETURN DATE and Time: 12:00:00 noon, Thursday, June 23, 2011

ITEM NO.	TERMS AND CONDITIONS	WILL COMPLY/WILL NOT COMPLY	COMMENT
1.0	INTRODUCTION		
1.01	The Thames Valley District School Board (hereafter referred to as the TVDSB) invites interested parties to submit sealed submissions in response to this bid document. The TVDSB is one of the largest public school boards in the Province of Ontario and is comprised of all public schools within the counties of Elgin, Middlesex, and Oxford. The TVDSB is the employer of approximately 8,000 staff and operates 178 schools with an estimated enrolment of 72,000 students.		
1.03	The TVDSB may agree to permit other public organizations within Southwestern Ontario to access any contract(s) that may result from this solicitation. The successful bidder(s) shall allow such access with the understanding that the participating organizations be responsible for their own contract management.		
1.1	PURPOSE		
1.1.1	The purpose of this bid document is to provide interested parties with sufficient information to enable them to prepare and submit bids for consideration by the TVDSB to implement an enterprise grade wireless access solution at its secondary schools.		
	The solutions shall provide seamless wireless access to all teaching areas within the secondary schools. The solutions shall be controller based, provide wireless 802.11n coverage and provide backward compatibility to 802.11a,b,and g networks. Access points must be managed by a controller(s), have dual radios and be capable of operating if a controller should fail. The wireless solution must provide multiple SSID's and VLAN's to service the multiple types of clients TVDSB serves. Microsoft Active Directory authentication, either through native AD queries or Radius must be provided through a customizable captive portal.		
	The solution must provide the ability to track client activity, intrusion detection and manage traffic flows. Management tools are essential for the ongoing configuration and management of the solution. It is expected that the successful bidder provide configuration and installation services for the controllers and access points in two secondary schools. TVDSB staff shall provide Airman site surveys, network cabling and staff to assist in the deployment and configuration		
2.0	BID DEFINITIONS AND INFORMATION		
2.1	DEFINITIONS		
2.1.1	The following words are used throughout this bid document and bidders should note these conditions when completing their bid submission.		

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2.1.1.1	The word "MUST" shall mean bidders "must" include the required information in bid submission. Failure to include the required information will deem submission noncompliant.		
2.1.1.2	The word "SHOULD" shall mean bidders "should" include the required information in bid submission.		
2.1.1.3	The word "NONCOMPLIANT" shall mean bid submissions will be eliminated from further evaluation if the submission does not include the required information.		
2.1.1.4	The word "SUBCONTRACTOR" shall mean a person, firm or company hired by the bidder(s) or the successful bidder(s) to perform any portion or all of this bid.		
2.1.1.5	The word "QUALIFIED" shall mean a bidder who is compliant and has included the required information in their bid submission.		
2.1.1.6	BID IRREGULARITY: A deviation between the requirements (terms, conditions, specifications, special instructions) of a bid response for the purposes of this bid; bid irregularities are further classified as major irregularities or minor irregularities. The classification of what is a major irregularity or a minor irregularity shall be the sole discretion of the TVDSB.		
2.1.1.6.1	Major Irregularity: A deviation from the bid request which affects the price, quality, quantity or delivery, and is material to the award. If the deviation is permitted, the bidder could gain an unfair advantage over competitors. The TVDSB will reject any bid submission which contains a major irregularity.		
2.1.1.6.2	Minor Irregularity: A deviation from the bid request which affects form, rather than substance. The effect on the price, quality, quantity or delivery is not material to the award. If the deviation is permitted or corrected the bidder would not gain an unfair advantage over competitors. The TVDSB may permit the bidder to correct a minor irregularity.		
2.2	STRUCTURE OF THIS BID		
2.2.1	Bidders must use the electronic bidding file (setup.exe) which is available on the internet at:		
2.2.1.1	www.tvdsb.ca		
2.2.1.2	"Board"		
2.2.1.3	"Purchasing"		
2.2.1.4	"Bids"		
2.2.1.5	Scroll to the end of the document, click		
2.2.1.6	"Proceed to inquiry/download page".		
2.2.1.7	Proceed to the bid, click		

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2.2.1.8	"New" Icon		
2.2.1.9	The setup.exe file contains the following files:		
2.2.1.9	Worksheet A: Terms and Conditions Response in Excel format		
2.2.1.10	Worksheet B: Specificaitons in Excel format		
2.2.1.11	Worksheet C: Pricing in Excel format		
2.3	RETURN LOCATION		
2.3.1	Sealed bid submissions must be returned to:		
2.3.2	"Tenders Clerk"		
2.3.3	Tenders Clerk's box, Basement, Education Centre		
2.3.4	Thames Valley District School Board		
2.3.5	1250 Dundas Street		
2.3.6	London, Ontario		
2.3.7	N5W 5P2		
2.3.8	The bid submission envelope should show the bid document name, number, return date and time (as set out in Section 9.10 - Labeling of Envelope and diskette or CD).		
2.3.9	The bid submission must be returned to the "Tenders Clerk" for your bid submission to be accepted.		
2.3.10	Delivery to the "Tenders Clerk" is the responsibility of the bidder.		
2.3.11	Submissions received by electronic transmission (i.e. fax or email) will not be accepted.		
2.3.12	Late bids will be returned to the bidder, unopened, if a return address is included on the submission envelope.		
2.4	IMPORTANT DATES		
2.4.1	ISSUE DATE: Friday, June 3, 2011		
2.4.5	RETURN DATE and TIME: prior to 12:00:00 noon local time Thursday, June 23, 2011		
2.5	QUESTIONS		
2.5.1	All questions pertaining to this bid document are to be addressed to: Angela McManus, by Fax (519) 452-2399 or angela.mcmanus@tvdsb.on.ca. All questions pertaining to this bid document must be submitted in writing.		
2.5.2	Answers to all questions will be posted to the TVDSB web site at www.tvdsb.on.ca		
2.5.2.1	"Board"		
2.5.2.2	"Purchasing"		
2.5.2.3	"Bids"		
2.5.2.4	Scroll to the end of the document, click		
2.5.2.5	"Proceed to inquiry/download page"		
2.5.2.6	Proceed to the Bid, click		

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2.5.2.7	"Answers to Questions"		
2.5.2.8	View documents in PDF format.		
2.5.2.9	All bid files are available for downloading at no charge from the TVDSB web site.		
2.5.2.10	Should any questions raised by a bidder necessitate an addendum to this bid document, the addendum will be posted to the TVDSB Web Site. See Section 2.5.3 .		
2.5.3	All Addenda will be issued at least seven days prior to the closing date. If an addendum is issued within seven days of the closing date, the date will be extended accordingly.		
3.0	CONTRACT TERM / PRICING / TAXES / DELIVERY / PAYMENT		
3.1	CONTRACT TERM		
3.1.1	The term of this agreement shall be for one year, and unless otherwise provided herein, terminating on July 1, 2012.		
3.1.2	The TVDSB may, at the end of this contract term, extend the contract for a period of two additional years in one (1) year increments and will advise the bidder in writing of their intentions.		
3.1.3	Bidders must state if your company would agree to extending this contract with the same terms and conditions for a second year ending July 1, 2013.		
3.1.4	Bidders must state if your company would agree to extending this contract with the same terms and conditions for a third year ending July 1, 2014		
3.2	PRICING		
3.2.1	Bidders must complete the pricing section which in Worksheet C.		
3.2.1	Bidders must print and sign the Worksheets.		
3.2.2	All charges must be included in the cost of the item. Prices quoted must be for goods and services exactly as specified and in Canadian funds, unless otherwise indicated.		
3.2.3	Prices must include delivery, F.O.B. destination. NO AWARDS WILL BE MADE TO FIRMS QUOTING FREIGHT EXTRA.		
3.2.4	Prices MUST remain firm for the first year of the contract and thereafter only manufacturer's price increases (supported by documentation) will be allowed.		
3.2.5	The TVDSB expects to order in multiple shipments over the length of this contract.		
3.2.6	It is the intention of the TVDSB to rationalize its supplier base. This contract may be awarded on a per item basis or on the best cost of various groupings. The groupings will be determined by the TVDSB. Each bidder agrees to the award on this basis.		
3.2.7	Bidders must state any further discount, as a percentage, if all items are awarded to your company.		

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3.3	TAXES		
3.3.1	GST, HST and PST: Where applicable, Goods & Services Tax and Provincial Sales Tax must be shown separately as extras on all invoices in accordance with Canadian and Provincial Government regulations.		
3.4	DELIVERY & ORDERING		
3.4.1	Delivery for all items will be directly to our Schools, Distribution Centre, Educational Resource Centre or Community Education Centres.		
3.4.2	Delivery dates will be specified on all of our purchase orders. Immediate delivery will be accepted unless otherwise designated on our purchase orders. In case of construction of new schools or major school renovations, the TVDSB shall not accept delivery until the date specified on those purchase orders.		
3.4.3	The successful bidder(s) bears the cost of repairs to the site and to hardware with respect to damage caused from shipping or installation.		
3.4.4	The successful bidder(s) bears the risk of loss with respect to equipment until delivery and/or installation is complete.		
3.4.5	The successful bidder(s) will remove all packaging and shipping debris at no cost to the TVDSB.		
3.4.6	The TVDSB's purchase order number must appear on all packages, packing slips, correspondences, customs documentation and freight bills of lading.		
3.4.7	The lead time shown will be used to calculate delivery dates on our purchase orders and to monitor your company's performance. The lead time must be met as it is one of our criteria considered in the decision, and award, of this and future contracts.		
3.4.8	Not all goods will be ordered at one time; orders will be placed as requests are received from our schools.		
3.4.9	State minimum dollar value per order.		
3.5	INVOICING/PAYMENT TERMS		
3.5.1	All invoices must be sent to the Thames Valley District School Board, 1250 Dundas Street, London, Ontario N5W 5P2. Attention: Accounts Payable.		
3.5.2	Applicable taxes must be shown as separate line items on all invoices.		
3.5.3	Bidders should indicate any specific payment terms. It is generally expected that payment will be 45 days from receipt of invoice.		
3.5.3.1	Bidders should state percentage discount for early payment and net payment terms.		
3.5.4	Purchase order numbers must be stated on all invoices; invoices without the Thames Valley District School Board Purchase Order number will be returned unpaid.		
4.0	SPECIFICATIONS/REQUIREMENTS		

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4.1	QUALITY		
4.1.1	Unless otherwise specified, supplies must be new, in good condition, fit for the purpose for which they are being acquired and free from defects. The decision of the TVDSB pertaining to items being rejected is final.		
4.1.2	Manufacturers' brand names and numbers are used as guidance for the bidders; alternate items of equal quality will be considered. If bidding on an alternate item, the manufacturer's name and model number must be indicated in the appropriate field in the Worksheet FOR EVERY ALTERNATE ITEM BID.		
4.1.3	The determination of equal quality will be based on our internal professional opinions.		
4.1.4	In addition to price, quality and suitability to school use will be among the first considerations. Delivery lead times, service, performance record, manufacturer's warranties and the value of the overall award will also be taken into consideration when awarding this contract.		
4.1.5	Any material, equipment, service or work ordered which, in the opinion of the TVDSB, does not completely fulfill the specifications must immediately be removed and/or completed to the specifications or sample quality at the expense of the successful bidder.		
4.1.6	The successful bidder(s) must carry out all work to the satisfaction of the TVDSB. All trade work is to be performed by appropriately certified staff. (Must be included for bids with service and/or warranty component)		
4.2	QUANTITY		
4.2.1	The quantities indicated are based on previous 2010 years' purchases and projected current year capital projects. Quantities are subject to equipment breakdowns, user requests, program changes and budget approval which may be increased or decreased when orders are placed. All items may not be purchased if costs exceed budget. In no way should the information furnished be considered as a guarantee with respect to the future volume of business. The successful bidder(s) will be responsible for supplying the quantities that are eventually ordered for each item awarded during the term of this bid at the quoted price.		
4.3	REQUIREMENTS		
4.3.1	The requirements are detailed in Specifications List - Worksheet B.		
4.3.1	For each requirement as described in Worksheet B, bidders must place a response in the appropriate column.		
4.5	RETURN OF GOODS POLICY		
4.5.1	The TVDSB will return any shipment (COLLECT) if, in our opinion, the product supplied does not conform to the specification and/or samples submitted in the bid.		

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4.5.2	Bidders must state if there is a time limit on returning goods.		
4.5.3	Bidders should state if there is a "restocking charge" on any returned item and the amount or rate to be charged if goods are returned for any other reason than those stated in 4.5.1.		
4.5.4	Bidders should describe their procedure for returned goods with respect to:		
4.5.4.1	Packaging		
4.5.4.2	"Attention To" labeling		
4.5.4.3	Address to where returns should be shipped		
4.5.4.4	Method of shipment (company truck, courier, transport)		
4.5.4.5	If a return authorization number is required		
4.5.4.6	What charges apply and who is responsible for payment		
4.5.5	The TVDSB will not pay to return any goods which do not meet the specifications listed in this bid.		
4.7	SUBSTITUTIONS		
4.7.1	In the event that an item ordered becomes discontinued during the contract, all bidders must notify the Purchasing Services Department for authorization before the item is substituted and shipped to the appropriate location. Successful bidders may be required to provide samples of the proposed substitutions before sending shipments. The Board reserves the right to return any shipment COLLECT , if in our opinion the products supplied do not conform to the specifications in this bid document.		
5.0	TERMS AND CONDITIONS		
5.1	GENERAL TERMS AND CONDITIONS		
5.1.1	Any response submitted to the bid is IRREVOCABLE for 120 days.		
5.1.2	A bidder who has already submitted a bid may submit an addendum in writing and signed by the bidder at any time up to the official closing time. No facsimiles shall be accepted. The last submission shall supersede and invalidate all previous submissions by that bidder as it applies to this bid. Addenda must be submitted to the "Tenders Clerk" in the same manner and within the same time constraints as the bid submission.		
5.1.3	A bidder may withdraw the bid at any time up to the official closing time by letter bearing his/her signature as it is in the submission. Withdrawal requests received after the closing date shall not be permitted. Submission withdrawals must be submitted to the "Tenders Clerk" in the same manner and within the same constraints as a bid submission.		
5.1.4	The issuance of this call for bids shall not constitute any obligation on the part of the TVDSB to any firm or individual who submits a bid.		

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5.1.5	The bidder must have satisfactorily fulfilled all relevant obligations as required under the terms and conditions of any previous award in order to be considered as an acceptable bidder.		
5.1.6	The laws of the Province of Ontario shall govern in any dispute occasioned as a result of the performance or non-performance and/or workmanship of a contract issued pursuant to the bid and any dispute arising out of the issuance of and response to this bid.		
5.1.7	The TVDSB reserves the right to withdraw the award of the contract to a successful bidder(s) within 30 days of the award if in the opinion of the TVDSB the successful bidder(s) is unable or unwilling to enter into a form of contract satisfactory to the TVDSB. The TVDSB shall be entitled to do so without any liability being incurred by the TVDSB to the bidder		
5.1.8	The lowest or any bid submission may not necessarily be accepted. The TVDSB reserves the right to decline any or all bid submissions, or to cancel the bid call in whole or in part at any time prior to making an award, for any reason, or no reason, without liability being incurred by the TVDSB to any bidder for any expense, cost, loss or damage incurred or suffered by the bidder as a result of such withdrawal.		
5.1.9	All costs associated with the preparation of the bid submission will be solely the responsibility of the bidder.		
5.1.10	The TVDSB reserves the right to decline or purchase one or all items in this bid from one supplier or from multiple suppliers.		
5.1.11	All of the terms and conditions of this bid are deemed to be accepted by the bidder and incorporated into the bidder's proposal submission. It is the TVDSB's intention that the Terms and Conditions stated in this bid and the successful bidder's response to this bid will form the contract between TVDSB and the successful bidder(s). Any conflict in the wording of the bidder's invoice and/or sales agreement and the wording of the terms and conditions of this proposal, shall be resolved in favour of the TVDSB and shall be deemed to be incorporated into the bidder's invoice and/or sales agreement.		
5.1.12	The successful bidder(s) must not at any time subcontract any portion of its contract with the TVDSB nor shall it assign the contract without the written permission of the TVDSB. The successful bidder(s) must not, at any time, change subcontractors approved by the TVDSB without written permission of the TVDSB.		

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5.1.13	While the TVDSB has used considerable efforts to ensure an accurate representation of information in this bid document, the information contained herein is contained solely as a guideline for bidders. The information is not guaranteed or warranted to be accurate by the TVDSB, nor is it necessarily comprehensive or exhaustive. Nothing in this bid document is intended to relieve bidders from forming their own opinions and conclusions in respect to the matters addressed in this bid document.		
5.1.14	The TVDSB may accept or waive a minor irregularity, or where practical to do so the TVDSB may as a condition of bid acceptance request a bidder to correct a minor irregularity with no change in bid price. Items of non compliancy on any bid submissions which do not strictly comply with the provisions, procedures and requirements of this bid, or are incomplete, ambiguous, or which contain errors, alterations, misleading information, omissions, or irregularities of any kind, may be rejected and disqualified at the discretion of the TVDSB. All bidders agree to provide all such additional information as, and when requested, at their own expense, provided no bidder in supplying any such information shall be allowed, in any way to change the pricing or other cost quotations originally given in its bid submission or in any way materially alter or add to the solution originally proposed.		
5.1.15	All TVDSB policies, procedures and regulations must be adhered to by the successful bidder(s).		
5.1.15.1	Smoking is prohibited in all TVDSB buildings and on all TVDSB property.		
5.1.15.2	Some TVDSB sites are equipped with video surveillance cameras.		
5.1.15.3	The successful bidder(s) is obliged to cooperate with all recycling and environmental procedures and initiatives established by government, the TVDSB and each school.		
5.1.16	The successful bidder(s) will reimburse the TVDSB for any damages through negligence or wilful acts of any of the successful bidder(s)' employees or contracted staff.		
5.1.17	The successful bidder(s)' employees and contracted staff shall not be considered TVDSB employees and shall not represent themselves as an agent of the TVDSB nor be eligible for any of the benefits provided to TVDSB employees.		
5.1.18	The TVDSB reserves the right to demand the removal of any successful bidder's employees or contracted staff engaged in this contract if, in the TVDSB's opinion, their conduct has been of an unacceptable nature.		
5.1.19	The successful bidder(s) will be responsible for seeing that regular supervision is maintained over all working personnel. It is the bidder's responsibility to see that all their activities are properly coordinated with the TVDSB's operations and modify assignments as required.		

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5.1.20	This bid document is being issued pursuant to the TVDSB's Purchasing Policies and Procedures.		
5.2	CANCELLATION OF CONTRACT / LOSS OF SERVICE		
5.2.1	The TVDSB reserves the right to terminate this contract within 30 days written notice if, in its opinion, the successful bidder(s) fails to meet the terms and conditions of the contract. Notwithstanding the termination of the contract, the successful bidder(s) shall remain responsible for its obligations under this contract up to the date of termination. The TVDSB reserves the right to commence an action in a court of competent jurisdiction against the successful bidder(s) for damages that result from the breach of the terms and conditions of the contract, by the successful bidder(s).		
5.2.2	The TVDSB shall have the right to retain and set off from any monies payable to the successful bidder(s) under the contract the total outstanding amount from time to time and for all damage claims by the TVDSB or any third parties arising out of this contract which have not been resolved by the successful bidder(s) or its insurer.		
5.2.3	The TVDSB reserves the right to withhold monies owing under a contract to the value of the obligation to a maximum of the monies owing to the successful bidder(s) for any indebtedness of the supplier that may impact on the TVDSB.		
5.2.4	The successful bidder(s) shall be responsible for ensuring continuous delivery of the goods and services in the event of a labour disruption by either, the successful bidder(s), the TVDSB's staff or third party interruptions.		
5.2.5	In the event that the successful bidder(s) becomes insolvent, and/or the successful bidder(s) is unable or unwilling to provide the contracted service for a period of more than 30 consecutive days during the period of the contract, the TVDSB shall have the right to replace the successful bidder(s) with another service provider suitable to the TVDSB in addition to all of its other rights pursuant to the term of this bid.		
5.3	FREEDOM OF INFORMATION AND PROTECTION OF PRIVACY ACT		
5.3.1	Bidders agree that all documentation and information contained in any bid submissions and any addendum that becomes the property of the TVDSB shall be subject to disclosure pursuant to an application pursuant to a Municipal Freedom of Information and Protection of Privacy Act request for disclosure. Notwithstanding that a bid submission or an addendum may contain a trade secret of the bidder, intellectual property right of the bidder, or scientific, technical, commercial, pricing or other financial or labour relations information or any other similar secret.		

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5.3.2	A bidder specifically consents to the disclosure of any and all information contained in their bid submission or any addendum pursuant to a request for disclosure pursuant to a Municipal Freedom of Information and Protection of Privacy Act and such consent shall be considered a consent given pursuant to Subsection 10(2) of the said Act. Notwithstanding the aforesaid, the bidder assigns all rights, titles and interests that they have in the bid submission, and any addendum to the TVDSB, including the right to copy and/or publish the same as the TVDSB sees fit, notwithstanding that no request for disclosure is made pursuant to the Municipal Freedom of Information and Protection of Privacy Act.		
5.3.3	All bidders agree not to disclose any information provided by the TVDSB in this bid document to any third party without the written consent of the TVDSB.		
5.4	HUMAN RIGHTS AND CHILD LABOUR LAWS		
5.4.1	Any infringement on human rights, but namely those of children, is of considerable concern to the TVDSB. Bidders wishing to do business with the TVDSB are asked to promote the purchase of goods from companies that operate in full compliance with the laws of their respective countries and with all applicable child labour laws, rules and regulations related to hiring, wages, hours worked, overtime and working conditions.		
5.4.2	Bidders should indicate your firm's policy and present practices and procedures in place to encourage promotion of this objective.		
5.4.3	For bidders information the web site address of the International Labour Organization and its objectives toward the abolition of child labour is:		
5.4.3.1	http://www.ilo.org		
5.5	HEALTH, SAFETY REGULATIONS		
5.5.1	All equipment requiring approval (Hydro One, C.S.A., ULC., etc.) must be completely assembled and must bear a label showing approval of assembly prior to delivery. The TVDSB shall not accept any equipment that has not been inspected and approved. If not so approved, the TVDSB reserves the right to invoice the successful bidder(s) for the cost of certification/replacement.		
5.5.2	Every person who supplies any machine, device, tool, equipment or service to the TVDSB must ensure that the machine, device, tool, equipment or service complies with the Occupational Health and Safety Act and Regulations of Industrial Establishments. The burden of proof rests with the supplier.		
5.5.3	The Ministry of Education and Training and the Ministry of Health provides regulations specifying which substances/products are not acceptable. If applicable, the successful bidder(s) must supply MATERIAL SAFETY DATA SHEETS providing us with the breakdown of components for any products used in our facilities with every shipment.		

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5.5.4	The Occupational Health and Safety Act describes the responsibilities of an employer. The TVDSB requires contractors maintain procedures, training and enforcement so that the responsibilities are carried out at our workplace. The contract shall abide by and strictly adhere to the regulations and conditions set out and laid down by the most current versions of the Occupational Health and Safety Act, 1990, Chapter 0-1. Their workers must be trained in WHMIS in accordance with Occupational Health and Safety Act Regulations. They must adhere to all of the TVDSB's Health and Safety Policy, Procedures and Guidelines and Municipal Bylaws.		
5.6	WORKPLACE SAFETY AND INSURANCE BOARD		
5.6.1	The successful bidder(s) must ensure that all workers are covered by the Workplace Safety & Insurance Board for the duration of this contract.		
5.6.2	The successful bidder(s) must furnish a Certificate of Clearance from the Workplace Safety and Insurance Board as evidence that all returns have been made and all necessary assessments have been paid as required, or levied, by the Workplace Safety and Insurance Board. This certification is to be furnished prior to the commencement of this contract. The good standing must be maintained throughout the contract. It is the responsibility of the Contractor to ensure that the Workplace Safety & Insurance Board Certificate is updated every sixty (60) days. The TVDSB reserves the right to request proof of coverage any time throughout the duration of the contract.		
5.6.3	All workplace injuries or accidents on TVDSB property must be reported by the successful bidder(s) to the TVDSB's representative within 24 hours.		
5.7	COMMERCIAL LIABILITY INSURANCE		
5.7.1	The successful bidder(s) must be covered by Commercial General Liability Insurance throughout the term of the contract. Each bidder must state if it has Commercial General Liability Insurance Coverage.		

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5.7.2	Each bidder should show proof with the submission of this bid that upon the award of this contract that it will be covered by Commercial Liability Insurance coverage with limits of \$5 million per occurrence for liability (by way of primary coverage and/or Umbrella Coverage and/or otherwise), arising at law for damages caused by reason of bodily injury (including death) or damage to property by its employees or subcontractors. If the bidder does not presently have \$5 million per occurrence of Commercial Liability Insurance coverage, the bidder shall provide a written assurance from his insurer or agent on the insurer's or agent's letterhead that liability insurance limits will be increased to \$5 million per occurrence from the commencement of the contract should the contract be awarded to the bidder. The successful bidder(s) further agrees to maintain good standing throughout the term of the contract. The TVDSB reserves the right to request proof of coverage any time throughout the duration of the contract.		
5.7.2.1	This liability policy shall contain the following coverage:		
5.7.2.2	Personal Injury & Property Damage		
5.7.2.3	Non-Owned Automobile Liability		
5.7.2.4	Owners and Contractors Protective Coverage		
5.7.2.5	Contractual Liability		
5.7.2.6	Broad Form Property Damage		
5.7.2.7	Products & Completed Operation Insurance		
5.7.2.8	Contingent Employees Liability		
5.7.2.9	Cross Liability Clause and Severability of Interest Clause		
5.7.3	Upon an award to the successful bidder(s) by the TVDSB, the successful bidder(s) shall be required to submit certification in a form satisfactory to the TVDSB of the above-mentioned coverage to protect the TVDSB against claims for property damages and personal injuries, including accidental death, caused by the successful bidder(s) or its employees or subcontractors during the performance of its obligations under the contract.		
5.7.4	The successful bidder(s) agrees to indemnify, hold harmless and defend the TVDSB from and against any and all liability for loss, damage and expense, which the TVDSB may suffer or for which the TVDSB may be held liable by reason or injury (including death) or damage to any property arising out of negligent or wilful acts on the part of the successful bidder(s) or any of its representatives or employees or subcontractors in the execution of the work performed or from defects in the equipment supplied.		
5.8	MOTOR VEHICLE LIABILITY INSURANCE		
5.8.1	Bidders must state if its own vehicles and/or those vehicles owned by its employees or subcontractors shall operate on the property of the TVDSB.		

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ITEM NO.	TERMS AND CONDITIONS	WILL COMPLY/WILL NOT COMPLY	COMMENT
5.8.2	In the event of an affirmative answer to 5.8.1, the successful bidders must be covered by Automobile Liability Insurance through the term of the Contract. If the bidder's employees or subcontractors will operate their own vehicles during the contract then they must maintain the same Automobile Liability Coverage as the bidder. Each bidder must state if it or its employees or subcontractors have Automobile Liability Insurance Coverage. Sub clauses also subsection 5.8.3 to subsection 5.8.4 applies to those employees or subcontractors who operate their own automobiles on the property of the TVDSB.		
5.8.3	Bidders should show proof with the submission of this bid, that upon the award of this contract that it will be covered by Automobile Liability Insurance with coverage limits of \$2 million (Commercial and \$1 million on all personally owned vehicles) per occurrence for liability arising at law for damages caused by reason or bodily injury (including death) or damage to property by its employees or subcontractors. If the bidder does not presently have \$2 million per occurrence of Automobile Liability Insurance Coverage, the bidder shall provide a written assurance from his insurer or agent on the insurer's or the agent's letterhead that liability insurance limits will be increased to \$2 million for Commercial Vehicles and \$1 million personally owned vehicles per occurrence from the commencement of the contract and annually thereafter for the term of the contract, should the contract be awarded to the bidder. The successful bidder(s) further agrees to maintain that good standing throughout the term of the contract.		
5.8.3.1	The TVDSB reserves the right to request proof of coverage anytime throughout the duration of the contract. This liability policy shall contain the following coverage:		
5.8.3.2	Third Party Liability Coverage in the form of OAP-1		
5.8.4	Upon an award to the successful bidder(s) by the TVDSB, the successful bidder(s) shall be required to submit certification in a form satisfactory to the TVDSB of the above-mentioned coverage to protect the TVDSB against claims for property damage and personal injuries, including accidental death, caused by the successful bidder(s) or its employees or subcontractors during the performance of its obligations under the contract by way of the ownership or operation of an automobile.		
5.8.5	The successful bidder(s) agrees to indemnify, hold harmless, and defend, the TVDSB from and against any and all liability for loss, damage and expense, which the TVDSB may suffer or for which the TVDSB may be held liable by reason of injury (including death) or damage to any property arising out of negligence on the party of the successful bidder(s) or any of its representatives or employees by way of the ownership or operation of an automobile.		
6.0	BIDDER PROFILE		

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ITEM NO.	TERMS AND CONDITIONS	WILL COMPLY/WILL NOT COMPLY	COMMENT
6.1	REFERENCES		
6.1.1	New bidders must provide a minimum of three references where you have successfully provided goods and or services similar to this bid document. The reference must contain the following information:		
6.1.1.1	Reference 1 - Company Name:		
6.1.1.2	Reference 1 - Address:		
6.1.1.3	Reference 1 - Contact Name:		
6.1.1.4	Reference 1 - Phone Number:		
6.1.1.5	Reference 1 - Fax Number:		
6.1.1.6	Reference 1 - e-mail address:		
6.1.1.7	Reference 2 - Company Name:		
6.1.1.8	Reference 2 - Address:		
6.1.1.9	Reference 2 - Contact Name:		
6.1.1.10	Reference 2 - Phone Number:		
6.1.1.11	Reference 2 - Fax Number:		
6.1.1.12	Reference 2 - e-mail address:		
6.1.1.13	Reference 3 - Company Name:		
6.1.1.14	Reference 3 - Address:		
6.1.1.15	Reference 3 - Contact Name:		
6.1.1.16	Reference 3 - Phone Number:		
6.1.1.17	Reference 3 - Fax Number:		
6.1.1.18	Reference 3 - e-mail address:		
7.0	BID SUBMISSION		
7.1	BIDDER'S RESPONSE GUIDE		
7.1.1	Each bid submission should be structured using only the criteria identified in this bid document. When submitting bids, bidders should use the same numbering format, as on this bid document.		
7.1.2	The bid submission must include:		
7.1.2.1	Printed and signed copies of all Appendices		
7.1.3	One Diskette, memory stick or CD with file names:		
7.1.3.1	Worksheet A: Terms and Conditions Response in Excel format - Electronic response required		
7.1.3.2	Worksheet B: Specifications in Excel format - Electronic response required		
7.1.3.3	Worksheet C: Pricing in Excel format - Electronic response required		

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ITEM NO.	TERMS AND CONDITIONS	WILL COMPLY/WILL NOT COMPLY	COMMENT
7.1.4	It is the bidders responsibility to ensure that the necessary "files" are on the diskette, memory stick or CD.		
7.1.5	Failure to respond in electronic format will deem the bid noncompliant.		
7.1.6	All bid documents should be submitted in an envelope marked with the bid name and number (as set out in Section 9.10 - Labeling Instructions).		
7.1.7	Bidders' submissions should include page numbers for ease of reference by committee members.		
7.1.8	The specifications and pricing section of the bid submission should not make reference to supplemental materials.		
7.1.9	Supplemental materials will not qualify as substitutes for direct responses to the bid's requirements unless specifically requested.		
8.0	AWARD		
8.1	EVALUATION PROCESS		
8.1.1	An evaluation committee will be established to evaluate bid submissions.		
8.1.2	All bid submissions will first be evaluated on their compliance with the requirements of this bid document.		
8.1.3	All compliant bid submissions will be evaluated by a TVDSB evaluation committee based on the following evaluation criteria:		
8.1.3.1	Price		
8.1.3.2	Compliance with Specifications		
8.1.4	Compliant bidders may be requested to make a presentation of their bid for clarification only. No alteration of your submission will be permitted. Notification will be given to qualified bidders as to the time and place. The presentation shall be at the expense of the bidder.		
8.1.5	Delivery, lead times, service, performance record, and the value of the overall award will also be taken into consideration when awarding this contract.		
8.1.6	The determination of equal quality will be based on our internal professional opinions.		
8.1.7	In the event of a tie score the TVDSB will resolve the tie by a draw. The names of the tie bidders will be entered into the draw. All parties will have representation when the draw takes place.		
8.2	AWARD AND NOTIFICATION OF CONTRACT		
8.2.1	The results of this bid will be posted to the TVDSB web site as soon as decisions have been made:		
8.2.1.1	www.tvdsb.ca		
8.2.1.2	"Board"		

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ITEM NO.	TERMS AND CONDITIONS	WILL COMPLY/WILL NOT COMPLY	COMMENT
8.2.1.3	"Purchasing"		
8.2.1.4	"Bids"		
8.2.1.5	"Electronic Bidding Instructions, Bid Download and Bid Results",		
8.2.1.6	Scroll to the end of the document, click		
8.2.1.7	"Proceed to inquiry/download page".		
8.2.1.8	Proceed to the Bid, click		
8.2.1.9	"Results - Check Mark"		
8.2.1.10	View documents in PDF format.		
8.2.2	All bid files are available for downloading at no charge from the TVDSB web site.		
	Angela McManus Purchasing Department	Tracy Grant Chairperson	
9.0	ELECTRONIC BIDDING INSTRUCTIONS		
9.1	DOWNLOADING BID DOCUMENTS		
9.1.1	All documents are available from the TVDSB Web Site at www.tvdsb.ca		
9.1.2	Click "Board"		
9.1.3	Click "Purchasing"		
9.1.4	Click "Bids"		
9.1.5	Read "Electronic Bidding Instructions, Bid Download and Bid Results" or "Bids"		
9.1.6	Click "Proceed to Inquiry/Download page"		
9.1.7	Click on the "Name of the Bid" to view documents in PDF format.		
9.1.8	Click on the "NEW" logo to download the executable files for preparing and submitting your bid.		
9.1.9	All bid files are available for downloading at no charge from the TVDSB web site.		
9.2	PRINTING COPIES OF BID DOCUMENTS		
9.2.1	To print a working copy of any bid document - Click on the "name of the Bid" to print documents in PDF format.		
9.3	COMPUTER SYSTEM REQUIREMENTS		
9.3.1	To use the electronic system, bidders must have the following equipment:		
9.3.1.1	Microsoft Windows, version 95 or greater		
9.3.1.2	2.5 MB available hard drive space		
9.3.1.3	3 ½ 1.44 MB diskette drive, memory stick or CD Burner.		
9.4	INSTALLATION OF BID PROGRAM ONTO YOUR COMPUTER:		
9.4.1	The TVDSB has made every effort to ensure the files are free of any virus and are functional. However, in safe computing practice, you are responsible for checking the files on your own virus checker to ensure it is free of any virus.		

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ITEM NO.	TERMS AND CONDITIONS	WILL COMPLY/WILL NOT COMPLY	COMMENT
9.4.4	To begin the Bid Program:		
9.4.4.1	Go to Windows Explorer		
9.4.4.2	Click on C:\ drive		
9.4.4.3	Open the folder "lbtender"		
9.4.4.4	The following files will be installed in the C:\lbtender directory:		
9.4.4.5	Appendices471.xls		
9.4.5	To start the process open the Excel files and complete as instructed.		
9.9	THE RETURN DISKETTE, MEMORY STICK OR CD:		
9.9.1	After all bids have been entered:		
9.9.1.1	Copy the all Appendices to either a 3.5" Diskette, memory stick or CD using your company's standard CD Writing program.		
9.9.1.2	Check to ensure that the files are on the diskette, memory stick or CD. Without these files we will not be able to download your bid.		
9.9.1.3	Be sure to label your diskette, memory stick or CD with company name and signature.		
9.10	LABELING OF ENVELOPE AND DISK		
9.10.1	ADDRESS BID ENVELOPE AS SHOWN BELOW:		
9.10.2	From - Company Name & Address		
9.10.3	To: OFFICE OF THE TENDERS CLERK		
9.10.4	Thames Valley District School Board		
9.10.5	EDUCATION CENTRE,		
9.10.6	1250 Dundas Street,		
9.10.7	LONDON, Ontario		
9.10.8	N5W 5P2		
9.10.9	Wireless Access Points		
9.10.10	Tender #471		
9.10.11	Return Date: 12:00:00 noon local time Thursday, June 23, 2011		
9.11	PLEASE AFFIX LABEL ON DISK AS SHOWN BELOW:		
9.11.1	THAMES VALLEY DISTRICT SCHOOL BOARD		
9.11.2	Wireless Access Points		
9.11.3	Tender #471		
9.11.4	Return Date: 12:00:00 noon local time Thursday, June 23, 2011		
9.11.5	Signature:		
9.11.6	Firm Name:		
10.0	SIGNATURE PAGE		

FIRM NAME : _____

SIGNATURE : _____

THAMES VALLEY DISTRICT SCHOOL BOARD
TENDER #471 - WIRELESS ACCESS POINTS
WORKSHEET A - TERMS AND CONDITIONS

ITEM NO.	TERMS AND CONDITIONS	WILL COMPLY/WILL NOT COMPLY	COMMENT
10.1	This section must be completed, signed, and included with your submission for your bid to be accepted.		
10.2	I hereby acknowledge and agree that I have read and completed all of the preceding Contract Terms and Conditions and all Appendices. All required Appendices are included in our bid submission.		
10.3	I/We the undersigned are duly authorized to execute this Bid Submission on behalf of:		
10.4	NAME (Please print):		
10.5	TITLE:		
10.6	SIGNATURE:		
10.7	FIRM NAME:		
10.8	State the legal entity that your organization operates under:		
10.8.1	Proprietorship		
10.8.2	Partnership		
10.8.3	Corporation		
10.9	If your organization is incorporated, bidders must state the jurisdiction in which the corporation was originally incorporated in:		
10.9.1	Name of each individual Partner or Correct Legal Name of Corporation:		
10.9.2	E-MAIL ADDRESS:		
10.9.3	ADDRESS:		
10.9.4	INTERNET ADDRESS:		
10.9.5	TELEPHONE NO.:		
10.9.6	FAX NO.:		
10.10	If subcontracting, bidders must provide the correct legal name for any sub contractor, their full personal name and address, telephone number, fax number, as well as the name(s) of appropriate contact persons (with whom the TVDSB may consult regarding this bid with whom the bidder enters into a contract(s) with to carry out any portion of this contract:		
10.10.1	Firm Name:		
10.10.2	Firm Address:		
10.10.3	Telephone Number:		
10.10.4	Fax Number:		
10.10.5	E-MAIL ADDRESS:		

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THAMES VALLEY DISTRICT SCHOOL BOARD
TENDER #471 - WIRELESS ACCESS POINTS
WORKSHEET B - SPECIFICATIONS

ITEM NO.	DESCRIPTION	COMPLIES/WILL NOT COMPLY	COMMENTS
	SOFTWARE		
B1	Must provide management software to configure and monitor controllers, access points and devices.		
B2	Must support Microsoft Windows based platforms.		
	Must Comply with the following Security Standards		
B3	WPA Personal		
B4	WPA Enterprise		
B5	WPA2(802.11i) Enterprise		
B6	WPA2(802.11i) Personal		
B7	802.11a/b/g with WEP		
	Must Comply with the following Encryption Standards		
B8	WEP and TKIP-MIC: RC4 40, 104 bits (both static and shared keys).		
B9	AES: CCM, CCMP		
B10	IPSec: DES-CBC, 3DES, AES-CBC		
B11	SSL and TLS: RC4 128-bit and RSA 1024- and 2048-bit		
	Must Comply with the following Authentication Standards		
B12	IEEE 802.1X (PEAP,EAP-TTLS,EAP-TLS,EAP-FAST)		
B13	RFC 2548 Microsoft Bidders-Specific RADIUS Attributes		
B14	RFC 2716 PPP EAP-TLS		
B15	RFC 2865 RADIUS Authentication		
B16	RFC 2866 RADIUS Accounting		
B17	RFC 2867 RADIUS Tunnel Accounting		
B18	RFC 2869 RADIUS Extensions		
B19	RFC 3579 RADIUS Support for EAP		
B20	RFC 3580 IEEE 802. IX RADIUS Guidelines		
B21	RFC 3748 Extensible Authentication Protocol		
B22	Bidders must provide customizable proxy page for web based logins.		
B23	Direct LDAP based Active Directory group membership queries.		
	ACCESS POINTS		
B24	TVDSB is seeking three types of access points. All must be controller configured and managed. Quantities of each access point will be dependant on location and installation. Quantaties in Worksheet C are estimated.		
B25	Access point type 1 must be capable of being installed flush in a standard wall mount box. Must have a minimum of one 10/100 Mbps uplink port as well as a built in Ethernet switch port(s) to feed exisiting devices for areas where new cabling is not feasible.		

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THAMES VALLEY DISTRICT SCHOOL BOARD
TENDER #471 - WIRELESS ACCESS POINTS
WORKSHEET B - SPECIFICATIONS

ITEM NO.	DESCRIPTION	COMPLIES/WILL NOT COMPLY	COMMENTS
B26	Access point type 2 must be ceiling mountable with internal antennas, 2.4 and 5 GHz dual radios, Meru AP320i or similar.		
B27	Access point type 3 must be ceiling mountable with external antennas, 2.4 and 5 GHz dual radios, Meru AP320 or similar.		
B28	Must support 802.11a, 802.11b, 802.11g. Additionally, Bidders must provide fully compatible IEEE 802.11n standard compliant devices. Devices following 802.11n draft releases are not acceptable.		
B29	Must support 802.1Q trunking with a minimum of 8 supported VLAN's.		
B30	Must support a minimum of 4 SSID's per device		
B31	All devices should provide automatic channel and transmit power selection, with the option to input manual values if necessary.		
B32	All type 2 and type 3 access points (see worksheet B items 26 and 27) must support two modes of operation: a) Tunneled VLAN's back to the controller b) Local VLAN's which integrate directly with the locations LAN through 802.1Q uplinks.		
B33	QoS must be supported. For devices operating in tunnel mode, DSCP field marking must be supported in IP headers. For devices operating in local mode, 802.1Q tag control field marking must be supported.		
B34	Radio's should mitigate the effects of multipath signal propagation for more consistent coverage.		
B35	Minimum antenna specifications for integrated/external must be 2.4 GHz - Gain 2.0 dBi, Horizontal Beamwidth 360 Degrees / 5 GHz - Gain 4.5 dBi, Horizontal Beamwidth 360 Degrees or better. Please state minimum and maxium.		
B36	Should have hardware assisted AES encryption.		
B37	The system must have a minimum of 10/100Mbps Ethernet interface and must have 1000Mbps Ethernet interface for 802.11n devices.		
B38	Must be IEEE 802.11i-Compliant; WPA2 Certified and WPA Certified.		
B39	Should provide a multipurpose and lockable mounting bracket, installs easily to walls, ceilings, and suspended ceiling railways. Should accommodate standard padlock to prevent theft. Should be suitable for large open areas including gymnasiums and auditoriums.		

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THAMES VALLEY DISTRICT SCHOOL BOARD
TENDER #471 - WIRELESS ACCESS POINTS
WORKSHEET B - SPECIFICATIONS

ITEM NO.	DESCRIPTION	COMPLIES/WILL NOT COMPLY	COMMENTS
B40	Inline Power Support, IEEE 802.3af must be supported. Currently the TVDSB does not have infrastructure which will support IEEE 802.3at power standard and devices requiring this standard will not be accepted.		
B41	Bidders must include the cost of inline power injectors for locations with non-PoE switch hardware.		
	CONTROLLER		
B42	Solution must be controller based architecture.		
B43	Solution must provide redundancy in controllers, access points should be able to operate in the event a controller goes down for a period of time.		
B44	Wireless LAN controller must support a minimum of 250 access points per controller.		
B45	Must provide management tools that will allow monitoring and configuration of multiple controllers		
B46	Must provide Wireless Protocol Support for IEEE 802.11a, 802.11b, 802.11g, 802.11d, 802.11h, 802.11n.		
B47	Must provide a command-line interface : Telnet, SSH, Serial Port.		
B48	Must provide web-based management and configuration tool, HTTP/HTTPS		
B49	Must be rack mountable.		
B50	Must have at least one uplink port: 10/100/1000 Mbps Ethernet (RJ-45)		
B51	Must provide centralized and simple firmware upgrade option for both controller and access points.		
B52	Must provide rogue RF IDS with optional shutdown capabilities.		
B53	The controller must provide means to monitor power levels and interference for attached clients.		
B54	Must provide customizable captive portal web based authentication screen.		
B55	Must support Radius authentication		
B56	Should support LDAP or Active Directory Authentication		
B57	Should provide per user QoS shaping and policing.		
B58	Should support user based access control (protocol, application)		
B59	Should provide centralized AP discovery		
B60	Must provide status screen showing all active connections.		
B61	Should have report generation capabilities to monitor individual access times and durations.		

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THAMES VALLEY DISTRICT SCHOOL BOARD
TENDER #471 - WIRELESS ACCESS POINTS
WORKSHEET B - SPECIFICATIONS

ITEM NO.	DESCRIPTION	COMPLIES/WILL NOT COMPLY	COMMENTS
B62	Must provide internal logging buffer as well as easy Syslog integration.		
B63	Should support seamless client roaming between discontinuous networks, describe how this will function.		
B64	Should provide zero touch configuration of access points		
B65	Should provide firewall capabilities between controll based traffic and LAN, up to 10,000 simultaneous sessions per controller		
B66	Must provide management and configuration of AP's that will ensure seamless roaming of end point devices on the wireless network.		
B67	Should provide DHCP services		
B68	Must supprt multipl VLAN's		
B69	Must support multipl SSID's		
B70	Must support QOS tagging		
	Must comply with the following Reporting/Management protocols		
B71	SNMPv1,v2c, v3		
B72	RFC 854 Telnet		
B73	RFC 1155 Management Information for TCP/IP-Based Internets		
B74	RFC1156MIB		
B75	RFC1157SNMP		
B76	RFC 1213 SNMP MIB II		
B77	RFC1350TFTP		
B78	RFC 1643 Ethernet MIB		
B79	RFC 2674 Definitions of Managed Objects for Bridges with Traffic Classes, Multicast Filtering, and Virtual LAN Extensions		
B80	RFC2819RMONMIB		
B81	RFC 2863 Interfaces Group MIB		
B82	RFC3164Syslog		
B83	RFC 3414 User-Based Security Model (USM) for SNMPv3		
B84	RFC 3418 MIB for SNMP		
B85	RFC 3636 Definitions of Managed Objects for IEEE 802.3 MAUs		
	TRAINING		
B86	State hours of support:		
B87	State any documentation available (Web based online, PDF ...):		
B88	Describe training that is available:		
B89	Online		
B90	Webinars		
B91	Group sessions		

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ITEM NO.	DESCRIPTION	COMPLIES/WILL NOT COMPLY	COMMENTS
B92	Training at school sites		
	WARRANTY AND MAINTENANCE		
B93	Bidders must state length of warranty. Bidders must state if warranty includes parts, labour and if the warranty is on-site. If not, bidders must indicate the terms of the warranty.		
B94	Bidders must state location of service facilities.		
B95	Bidders must state number of service people at each location.		
B96	Bidders must state time to respond to service calls:		
B97	Less than one half day		
B98	One half day		
B99	One full day		
B100	More than one day		
B101	Other		
B102	Bidders must state mean time to repair commitments in the event of service disruption and associated penalties in the event of extended outages.		
B103	Bidders must include a statement outlining your company's quality assurance philosophy and program. This statement should detail how		
B104	Service related problems		
B105	Quality problems		
B106	All equipment must be guaranteed for the entire period of the contract you are bidding. The successful bidder(s) must be prepared to exchange all equipment that proves defective during this contract without rewriting the agreement. Machines will be replaced if the number of service calls greatly exceeds those recommended in the machines preventive maintenance schedule or when the successful bidder(s) and the TVDSB recommends replacement due to any other conditions upon mutual agreement.		
B107	The TVDSB reserves the right to initiate a survey to measure customers' satisfaction.		
B108	Bidders must be prepared to register all units under warranty for the TVDSB. The TVDSB will not accept any warranty that requires each unit to be registered by the TVDSB.		
B109	Bidders must disclose, their policy of loan machines in the event repairs are not made within 24 hours:		
B110	Bidder must state if they are willing to provide sufficient spare components to meet service level guarantees:		

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THAMES VALLEY DISTRICT SCHOOL BOARD
TENDER #471 - WIRELESS ACCESS POINTS
WORKSHEET B - SPECIFICATIONS

ITEM NO.	DESCRIPTION	COMPLIES/WILL NOT COMPLY	COMMENTS
B111	The successful bidder must be prepared to exchange all equipment that proves to be Defective or Dead on arrival (DOA) during this contract.		
ADDITIONAL SERVICES			
B112	Please provide a list of additional services below. The associated cost must be detailed in Pricing Worksheet.		

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THAMES VALLEY DISTRICT SCHOOL BOARD
TENDER #471 - WIRELESS ACCESS POINTS
WORKSHEET C - PRICING

ITEM NO.	DESCRIPTION	QTY.	UNIT PRICE	TOTAL PRICE
	SOFTWARE LICENSING FEES			
C1	Access Point Software Annual			
C2	Controller Software Annual			
C3	Management software Annual			
	Hardware			
C4	Cost of Access Points - Type 1	300		
	Ethernet port modules for AP Type 1	300		
	Cost of Access Points - Type 2	1100		
	Cost of Access Points - Type 3	100		
C5	Controller(s) to support 1500 AP's			
	POE Injectors	100		
	Maintenance			
C6	Access Point Hardware - Type 1 - next day replacement	300		
C7	Access Point Hardware - Type 2 - next day replacement	1100		
C8	Access Point Hardware - Type 3 - next day replacement	100		
	Controller - next day replacement			
	Installation			
C9	Configuration and installation of controllers			
C10	Install and configuration of access points for two schools, estimate 80 AP's, software only, physical installation of AP's will be performed by TVDSB staff.			

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