



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
Room 100,
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6
Bid Fax: (204) 983-0338

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Miscellaneous Lab Equipment	
Solicitation No. - N° de l'invitation A7100-164083/A	Date 2017-01-13
Client Reference No. - N° de référence du client A7100-164083	
GETS Reference No. - N° de référence de SEAG PW-\$WPG-016-10118	
File No. - N° de dossier WPG-6-39269 (016)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-02-27	Time Zone Fuseau horaire Central Standard Time CST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Hall, Marlene	Buyer Id - Id de l'acheteur wpg016
Telephone No. - N° de téléphone (204) 230-0147 ()	FAX No. - N° de FAX (204) 983-7796
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Wills Transfer Ltd. 3100 Swansea Crescent Ottawa, ON. K1G 3W4 c/o Claudette Weedmark	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Western
Region
Room 100
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 6.2 of the resulting contract clauses.

1.2 Comprehensive Land Claims Agreement(s)

This procurement is subject to the following Comprehensive Land Claims Agreement(s):

- Agreement Between The Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada

1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.4 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 120 days

2.1.1 SACC Manual Clauses

B1000T (2014-06-26) Condition of Material – Bid

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

2.2.1 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 15 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Manitoba.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

2.5 Bidders' Conference

A bidders' conference will be held on January 26, 2017 to provide information and opportunities for bidders to ask questions about the solicitation and the procurement process. Supplier's attendance is optional. The bidders' conference will be held at Public Works and Government Services Canada (PWGSC), 167 Lombard Avenue, Winnipeg, Manitoba via web-ex and teleconference. The bidders' conference will begin at 10:00 am Central Standard Time.

Bidders are requested to communicate with the Contracting Authority before the conference to confirm attendance and receive teleconference and web-ex instructions. Bidders should provide, in writing, to the Contracting Authority, the name(s) of the person(s) who will be attending and a list of issues they wish to table no later than January 24, 2017, 2:00 pm CST.

Any clarifications or changes to the bid solicitation resulting from the bidders' conference will be included as an amendment to the bid solicitation. Bidders who do not attend will not be precluded from submitting a bid.

Contracting Authority: Marlene Hall
Telephone: 204-230-0147
Email: marlene.hall@pwgsc-tpsgc.gc.ca

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "C" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "C" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

- (a) Bidder must be able to perform the scope of the work described in the Annex A, Requirement and meet the Minimum Mandatory Performance Specifications detailed in Annex A.
- (b) Bidder must complete the Compliance Matrix detailed in Annex A, Requirement. Completion is defined as indication of compliance to the mandatory criterion as outlined in Annex A, Requirement

4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price

4.2 Basis of Selection

4.2.1 Basis of Selection – Multiple Items

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price on an item by item basis will be recommended for award of a contract.

[*SACC Manual* Clause [A0272T](#) (2010-08-16)]

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website ([http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_p](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969)rogram.page?&_ga=1.229006812.1158694905.1413548969).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex [Federal Contractors Program for Employment Equity - Certification](#), before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before March 31, 2017.

6.4.2 Comprehensive Land Claims Agreement(s)

This procurement is subject to the following Comprehensive Land Claims Agreement(s):

- Nunavut Land Claims Agreement

6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Marlene Hall
Procurement Specialist
Public Works and Government Services Canada
Acquisitions and Compensation Branch
100 - 167 Lombard Avenue
Winnipeg, MB. R3B 0T6

Telephone: 204 230-0147
Fax: 204 983-7796
Email: marlene.hall@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Project Authority

The Project Authority for the Contract is: *A contact to be named at date of contract issuance*

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the

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File No. - N° du dossier
WPG-6-39269

Buyer ID - Id de l'acheteur
wpg016
CCC No./N° CCC - FMS No./N° VME

Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
Email: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price(s), as specified in Annex B of \$ _____. Customs duties are included and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

6.6.2 Single Payment

SACC Manual clause [H1000C](#) (2008-05-12) Single Payment

6.6.3 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Direct Deposit (Domestic and International)

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Manitoba.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions [2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____.

6.11 SACC Manual Clauses

B1501C	(2006-06-16)	Electrical Equipment
B7500C	(2006-06-16)	Excess Goods
C2000C	(2007-11-30)	Taxes – Foreign-based Contractor
C5201C	(2008-05-12)	Prepaid Transportation Costs
D4002C	(2013-04-25)	Shipping Instructions-Free on Board Destination and delivered Duty Paid
G1005C	(2016-01-28)	Insurance – No Specific Requirement

ANNEX "A" - REQUIREMENT

The Canadian High Arctic Research Station (CHARS) has a requirement for the supply and delivery of Miscellaneous Laboratory Equipment.

A complete list of the mandatory technical specifications is detailed in the Compliance Matrix.

Delivery, FOB Destination: Wills Transfer Ltd.
3100 Swansea Crescent
Ottawa, ON. K1G 3W4
(613) 744-0970 ext. 201
c/o Claudette Weedmark

Delivery to be coordinated with the Project Authority and must be delivered to Wills Transfer Ltd on or before March 31, 2017. (Project Authority contact information to be provided at time of contract award)

Installation, if required, will be negotiated with the Contactor under a separate contract.

Bidders can bid on one item or more than one item. The responsive bids with the lowest evaluated price on an item by item basis will be recommended for award of a contract. It is anticipated multiple contracts will be awarded

Instructions:

A complete list of the mandatory technical specifications is detailed in the Compliance Matrix.

1. Bidders are to provide supporting technical documentation for the specifications detailed in the Compliance Matrix, and cross-reference where the supporting documentation is found within the proposal to demonstrate compliance. Bidders are to clearly demonstrate compliance with the specifications.
2. Supporting technical documentation, such as specification sheets, technical brochures, and photographs or illustrations should provide adequate detail to substantiate that the goods offered meet the technical requirements. It is the Bidders responsibility to ensure that the submitted technical documentation provides adequate detail to prove that the proposed product(s) meet the requirements of the technical specification. If specific published technical documentation is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.
3. If the complete specification and/or literature is not submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.
4. Canada will not evaluate information such as references to Web site addresses where additional information can be found.
5. Bidders must address any concerns with the Specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.
6. Failure to meet the minimum mandatory specifications will result in your proposal being deemed non-responsive, and be given no further consideration in the evaluation process.

Compliance Matrix – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS:

	<p><u>Completion and submission of Mandatory Performance Specification is required to be considered responsive and for your offer to be given further consideration.</u></p> <p>a. Bidder must cross reference where in their technical offer, the performance specification is located.</p> <p>b. Provide the specification being offered which meets or exceeds <u>and cross-reference as to where the supporting documentation is found within your proposal.</u> If there is insufficient space in the table, assign SIR # (Supplementary Information Reference) and provide the appropriate details on a separate page in your offer. Where published supporting documentation is not available in the form of brochures, technical data sheets etc., prepare a written narrative complete with a detailed explanation of how its offer demonstrates compliance.</p>	
	<p><u>All work and materials herein specified must meet and maintain minimum Canadian and Provincial certification(s) and approval(s) as applicable by Industry Standards.</u></p>	
Item	Specifications	Bidder Response: indicate how they meet the specifications addressed below/ cross-reference where this technical specification is indicated in their bid documentation
1	Laboratory table-top lyophilizer integrated system (pump, trap, rotor & centrifugal evaporator)	
1.1	Monobloc and compact configuration	
1.2	External dimensions: <ul style="list-style-type: none"> Width : 775mm ±50mm (30.5in ±2in) Depth : 675mm ±50mm (36.6in±2in) Height : 475mm ±75mm (18.7in ±3in) 	
1.3	Temperature range: 45°C to 80°C ±5°C (113°F to 176°F ±3°F)	
1.4	Integrated cold trap: <ul style="list-style-type: none"> Trap capacity: 4L ±0,5L (0.14ft3 ±0.02ft3) Trap operating temperature: -50°C ±5°C (-58°F ±3°F) 	
1.5	Built-in oil free and maintenance free diaphragm vacuum pump: <ul style="list-style-type: none"> 2 headed pump with Ethylene tetrafluoroethylene (ETFE) diaphragms Pump capacity: 36L/min ±3L/min (0.02ft³/s ±0.002ft³/s) Expected vacuum level: 10Torr or less (13mBar, 1.3kPa, 0.013Atm) 	

1.6	<p>Inner chamber:</p> <ul style="list-style-type: none"> • Teflon coated aluminium • Radiant glass cover with solvent resistant seal • Polypropylene (PP) fittings 	
1.7	<p>Concentrator:</p> <ul style="list-style-type: none"> • Overall volume: 1.5 to 500ml • Maximum tube capacity: 200 or more 1.5-2.0ml tubes • Maximum microplate capacity: 12 or more shallow-well microplates 	
1.8	<p>Control and display:</p> <ul style="list-style-type: none"> • Programmable • Minimum of five (5) ramp rate • Temperature setting 45°C to 80° in 5°C increments • Real time LED display: <ul style="list-style-type: none"> - Separate for heating and running - Continuous and up to 10hours by 1minute increments 	
1.9	Exterior construction made of baked powder painted steel or epoxy coated steel	
1.10	Four (4) anti-slip foot pads	
1.11	Maintenance free induction motor	
1.12	<p>Electrical requirement:</p> <ul style="list-style-type: none"> • 208V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	
1.13	<p>Preselected rotors w/ all the necessary rotor blocks, carrier sets and assemblies for:</p> <ul style="list-style-type: none"> • minimum 8 shallow or deepwell microplates • minimum 100 11x39mm microcentrifuge tubes • minimum 75 16x100 conical 15ml centrifuge tubes • minimum 20 30x115 conical 50ml centrifuge tubes • minimum 2 100ml flask 	
1.14	If required for operation of proposed model, one (1) Liter of heat transfer fluid	
1.15	<p>Manual (English language):</p> <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	

2	Ultra-purified ASTM Type I water dispenser, 120L/h (2LPM) capacity	
2.1	<p>External dimensions:</p> <ul style="list-style-type: none"> • Width : 425mm ±25mm (16.7in ±1in, excluding dispensing system, if any) • Depth : 450mm ±25mm (17.7in ±1in) • Height : 700mm ±50mm (27.6in ±2in) 	
2.2	<p>Production:</p> <ul style="list-style-type: none"> • Ultra-purified water qualifying as ASTM type I (from ASTM Type II feed) • Resistivity 18.2MOhms-cm @25°C • Total Organic Content (TOC) : 5ppb or less ±10% • Bacteria: less than 0.1cfu/ml • Pyrogens free • RNases free • DNases free • 2LPM ±0.2L (0,5GPM ±0,05GPM) 	
2.3	<p>Automated internal monitoring:</p> <ul style="list-style-type: none"> • Feed water conductivity • Product water conductivity • Product water resistivity • Total Organic Content (TOC): <ul style="list-style-type: none"> ○ Accurate detection range; 1-10ppb ±10% 	
2.4	<p>Display:</p> <ul style="list-style-type: none"> • Unit status • Resistivity • Temperature • TOC : 1-999ppb ±10% • Volume dispensed 	
2.5	Self-standing	
2.6	Wall or bench-top mounted	
2.7	<p>Articulated dispensing arm:</p> <ul style="list-style-type: none"> • Manual dispense capable • Automated dispense capable • Flow control feature 	
2.8	<p>Electrical requirement:</p> <ul style="list-style-type: none"> • 208V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	

2.9	Mandatory accessories – Each instrument must include: <ul style="list-style-type: none"> • One (1) wall-mounting kit per unit • One (1) wall-mounting kit per unit for the dispensing arms if independent from unit • All the necessary final polishing filters per unit • Complete replacement cartridge kit • One (1) UV light replacement kit for the lot 	
2.10	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
3	Self-standing meat band saw	
3.1	External dimensions: <ul style="list-style-type: none"> • Width : 850mm ±25mm (33.5in ±1in) • Depth: 850mm ±25mm (33.5in ±1in) • Height : 1750mm ±50mm (68.9in ±2in) 	
3.2	Cutting clearance: <ul style="list-style-type: none"> • Length :340mm ±25mm (12.5in ±1in) • Width : 500mm ±25mm (20in ±1in) • Height : 380mm ±50mm (15.25in ±2in) 	
3.3	Open frame, water and rust resistant stainless steel construction	
3.4	Made to be operated in a cold and humid environment	
3.5	Made to withstand hose down cleaning	
3.6	Four (4) leveling feet w/ a minimum of 50mm (2in) available for height adjustment	
3.7	Carriage: <ul style="list-style-type: none"> • Safety pusher plate • Tri-rail w/ lock 	
3.8	Split rear table	
3.9	Motor: <ul style="list-style-type: none"> • Minimum 3HP • Direct gear drive transmission • Helical gear reduction • Sealed unit • Water resistant • Pivot mounted • Moisture resistant heated control 	

3.10	<p>Blade and blade mechanism:</p> <ul style="list-style-type: none"> • 16mm ±3mm (5/8in ±1/8in) Wide x 3200mm ±100mm (126in ±4in) Long • Blade tension control • Water resistant • Center crown • Enclosed upper and lower pulley • Moisture resistant heated control 	
3.11	<p>Electrical requirement:</p> <ul style="list-style-type: none"> • 208V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	
3.12	<p>Mandatory accessories:</p> <ul style="list-style-type: none"> • Five (5) extra blades • Saw repair kit 	
3.13	<p>Manual (English language):</p> <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
4	Wheeled necropsy table for large animals w/ scissor-action lift, 1135kg (2500lbs) load capacity	
4.1	<p>External dimensions:</p> <ul style="list-style-type: none"> • Length: 2150mm ±25mm (84in ±1in) • Width : 915mm ±25mm (36in±1in) • Height : 375 to 1220mm ±25mm (15 to 48in ±1in) 	
4.2	Load capacity: 1135kg ±25kg (2500lbs ±55lbs)	
4.3	Self-standing	
4.4	<p>Top:</p> <ul style="list-style-type: none"> • Rectangular • 304-16Ga stainless steel or better • Raised edge 	
4.5	<p>Undercarriage:</p> <ul style="list-style-type: none"> • 304 stainless steel or better 	
4.6	<p>Scissor-action lift:</p> <ul style="list-style-type: none"> • Hydraulic • W/ shielded self-contained power unit • Allowing for 2-way tilt • Foot control pedals 	
4.7	Minimum one (1) drain port	

4.8	<p>Casters:</p> <ul style="list-style-type: none"> • Four (4) heavy duty 150mm ±10mm (6in ±0,5in) diameter • Locking swivel • Non marking • Retractable 	
4.9	<p>Electrical requirement:</p> <ul style="list-style-type: none"> • 208V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	
4.10	<p>Mandatory accessories:</p> <ul style="list-style-type: none"> • Two (2) spare casters 	
4.11	<p>Manual (English language):</p> <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
5	Wheeled adjunct necropsy table (or mobile exam table), fixed height	
5.1	<p>External dimensions:</p> <ul style="list-style-type: none"> • Width : 1530mm ±25mm (60in ±1in) • Depth : 915mm ±25mm (36in±1in) • Height : 890mm ±25mm (35in ±1in) 	
5.2	Load capacity: minimum 150kg (330lbs)	
5.3	Self-standing	
5.4	<p>Top:</p> <ul style="list-style-type: none"> • 304-16Ga stainless steel • #4 satin finish • Recessed («marine edge»)10mm ±3mm (0.4in ±0.1in) 	
5.5	<p>Undercarriage:</p> <ul style="list-style-type: none"> • 304-16Ga stainless steel • #4 satin finish • w/ three (3) stainless steel storage drawers: <ul style="list-style-type: none"> ○ Width: 500mm ±25mm (20in ±1in) ○ Depth: 550mm ±25mm (22in ±1in) • w/ one (1) storage cabinet: <ul style="list-style-type: none"> ○ Width: 500mm ±25mm (20in ±1in) ○ Depth: 550mm ±25mm (22in ±1in) ○ w/ one (1) stainless steel adjustable shelf and stainless steel door 	
5.6	<p>Casters:</p> <ul style="list-style-type: none"> • Four (4) heavy duty 125mm ±10mm (5in ±0.5in) diameter • Locking swivel • Non marking 	

5.7	Two (2) spare casters	
5.8	User manual	
6	Wheeled wet table, stainless steel	
6.1	External dimensions: <ul style="list-style-type: none"> • Width : 1220mm ±25mm (48in ±1in) • Depth : 762mm ±25mm (30in±1in) • Height (w/ 2% slope): 892 to 915mm ±25mm (35 to 36in ±1in) 	
6.2	Load capacity: 165kg ±10kg (364lbs ±22lbs)	
6.3	Self-standing	
6.4	Top: <ul style="list-style-type: none"> • Table top sloped (2%) toward drain port • 304-14Ga stainless steel • #4 satin finish • Recessed (marine edge)10mm ±3mm (0.4in ±0.1in) 	
6.5	Undercarriage: <ul style="list-style-type: none"> • 304 stainless steel • #4 satin finish 	
6.6	Drain port: <ul style="list-style-type: none"> • PVC ball valve on drain port 	
6.7	Four (4) heavy duty 125mm ±10mm (5in ±0.5in) diameter locking swivel casters <ul style="list-style-type: none"> • Non marking casters 	
6.8	Mandatory accessories: <ul style="list-style-type: none"> • One (1) stainless steel bucket, minimum 8L (8qts) • One (1) Stainless steel bucket holder • Two (2) spare casters 	
6.9	User manual	
7	Vibration dampening mount	
7.1	Dimensions: <ul style="list-style-type: none"> • Width: 475mm ±25mm • Depth: 500mm ±50mm • Thickness: 65mm ±15 mm 	

7.2	Load capacity: up to 16kg ±1kg	
7.3	Construction: <ul style="list-style-type: none"> • Dense rock or aggregate material • Polish surface • Scratch and chemical resistant • w/ four (4) cushioning feet 	
7.4	Vibration dampening capacity: <ul style="list-style-type: none"> • Down to 13Hz w/ 16kg load • Down to 25Hz w/ less than 16kg load 	
8	Pipet plugger	
8.1	Dimensions: <ul style="list-style-type: none"> • Width: 250mm ±25mm • Depth: 275mm ±25mm • Height: 250mm ±25mm 	
8.2	Portable	
8.3	Minimum 3 speed settings	
8.4	Use "Geneva mechanism"	
8.5	Belt-operated	
8.6	Fit most laboratory glass pipets sizes (minimum 2ml, 5ml, 10ml and 25ml)	
8.7	Electrical requirement: <ul style="list-style-type: none"> • 120V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	
8.8	Mandatory accessories – must be included: <ul style="list-style-type: none"> • Five (5) rolls of roving cotton • Two (2) stuffer pin replacements • Two (2) scissor blades replacement set • Three (3) replacement belts 	
8.9	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
9	Rotary microtome, semi-motorized	
9.1	Dimensions: <ul style="list-style-type: none"> • Width: 450mm ±50mm • Depth: 650mm ±50mm • Height: 325mm ±25mm 	

9.2	Section thickness range: 0,5-100µm ±5µm (upper limit only)	
9.3	Trimming section thickness range: 1-600µm ±25µm (upper limit only)	
9.4	Object feed: 28mm ±3mm	
9.5	Maximum specimen size: 50mmL x 40mmW x 60mmH	
9.6	Vertical stroke: 70mm ±5mm	
9.7	Sectioning modes: <ul style="list-style-type: none"> • Manual • Conventional mode w/ full handwheel rotation • Rocking mode 	
9.8	Finger protection guard on blade holder	
9.9	Control panel: <ul style="list-style-type: none"> • Programmable section thickness • Variable incrementation of section thickness depending on micro-range • Programmable trimming section thickness • Section thickness totalizer indicator • Section counter 	
9.10	Horizontal motorized feeder: <ul style="list-style-type: none"> • Two speed setting: 300µm/s or 900µm/s 	
9.11	Electrical requirement: <ul style="list-style-type: none"> • 120V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	
9.12	Mandatory accessories – must include: <ul style="list-style-type: none"> • Two (2) Universal cassette clamp • Two (2) Standard specimen cassette clamp • Two (2) knife holder for high & low profile disposable blades w/ lateral displacement • Disposable profile “c” blades for cassette embedded sample in paraffin - low profile, one (1) set of 50 • Disposable profile “c” blades for cassette embedded sample in paraffin - high profile, one (1) set of 50 • One (1) knife holder for Tungsten Carbide blades for resin or plastic embedded samples • Disposable profile “c” Tungsten Carbide-65 (TC-65) blades for resin or plastic embedded samples, one (1) set of 5 	

9.13	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
10	Mobile adjunct OT lamp, 140,000Lux	
10.1	Mobile base stand dimensions: <ul style="list-style-type: none"> • Width: 800mm ±50mm • Depth: 800mm ±50mm 	
10.2	Height and reach: <ul style="list-style-type: none"> • Maximum lamp elevation: 2500mm ±100mm • Minimum lamp elevation: 850mm ±100mm • Vertical swivelling range of the lamp arm: 1200 ±100mm • Horizontal pivoting range: minimum 270° • Cupola xial swivelling range: minimum 180° • Working distance range: 600-1500mm ±100mm • Focusable light field size: 150-300mm ±30mm 	
10.3	LED light source: <ul style="list-style-type: none"> • Central light intensity at 1m: 140,000Lux ±15,000Lux • Dimming range: 5-100% • 5 colour rendering: <ul style="list-style-type: none"> ○ 3750K ±200K ○ 4000K ±200K ○ 4250K ±200K ○ 4500K ±200K ○ 4750K ±200K • Color rendering index «R9»: 95 ±5 • Color rendering index «Ra»: 95 ±5 (where Ra is the average of R1 to R9 indexes) 	
10.4	Electrical requirement: <ul style="list-style-type: none"> • 120V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	
10.5	Two (2) replacement sterilizable lamp handles	
10.6	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
11	Gel documentation system, highly versatile	
11.1	Instrument overall dimensions: <ul style="list-style-type: none"> • Width: 550mm ±100mm • Depth: 550mm ±100mm 	
11.2	Maximum of two (2) distinct components (imager and computer)	

11.3	Available image area: minimum 275mm x 275mm ±25mm	
11.4	<p>Intended uses, but not limited to, :</p> <ul style="list-style-type: none"> • Nucleic acid documentation • Protein gel documentation • Blots (western, northern, southern) • In-gel Westerns (IGW) • Chemiluminescence • Fluorophore and multiple dyes detection (red, blue, green channels) • Cell-based quantitative immunofluorescent assays • Tissue section • RNAi analysis • ELISA • EMSA 	
11.5	<p>Camera OR Laser based (specify which):</p> <ul style="list-style-type: none"> • If camera: <ul style="list-style-type: none"> ○ Supercooled CCD camera ○ Peltier effect cooling system ○ Image resolution: minimum 4 Megapixels or better ○ Automated focusing 	
11.6	<p>Acquisition system and software allow for:</p> <ul style="list-style-type: none"> • Pre-setted protocol • Scan/image overlay • Colorimetry • Densitometry • Chemilumiscence • Gel documentation • Multiplex documentation 	
11.7	<p>Analysis software:</p> <ul style="list-style-type: none"> • Total signal quantitation • Total lane signal intensity calculation • Intensity normalization • Density ratio calculation 	
11.8	<p>Electrical requirement:</p> <ul style="list-style-type: none"> • 120V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	

11.9	Mandatory accessories per instrument: <ul style="list-style-type: none"> • One (1) acquisition computer w/ screen, keyboard and mouse fully compatible with the proposed softwares and the expected tasks • One (1) Darkroom • One (1) Acquisition software • Minimum one (1) Analysis software license • One (1) Thermal printer • Sixteen (16) printer paper rolls • Every necessary cables (imager to computer, imager to printer) • One (1) Replacement UV 302nm lamp • One (1) Replacement white light lamp 	
11.10	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
12	Submerged horizontal gel electrophoresis cell (“wide mini-sub”)	
12.1	Can accommodate gel dimensions: <ul style="list-style-type: none"> • Width: 150mm ±10mm • Length: minimum 70mm up to 100mm ±10mm 	
12.2	Gel trays: <ul style="list-style-type: none"> • UV transparent • w/ comb slots 	
12.3	Can accommodate pre-cast agarose gels	
12.4	Intended use: <ul style="list-style-type: none"> • Nucleic acid agarose gel 	
12.5	Electrodes: <ul style="list-style-type: none"> • Made of platinum • Minimum 0.25mm diameter 	
12.6	Mandatory accessories per system: <ul style="list-style-type: none"> • One (1) electrophoresis cell w/ safety lid & electrical cables • Two (2) running UV transparent running trays • Two (2) 8-wells fixed height combs x 1.5mm thick • Two (2) 15-wells fixed height combs x 1.5mm thick • Two (2) 20-wells fixed height comb x 1.5mm thick 	
12.7	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	

13	Basic power supply for submerged horizontal electrophoresis	
13.1	<p>Required features:</p> <ul style="list-style-type: none"> • Maximum output: 75W ±5W • Intended for submerged horizontal electrophoresis • Can accommodate four (4) electrophoresis cells in parallel • Timer: 0 to 999minutes in 1min increments • LED display • Stop button • Run/Pause mode button • Volt, current or time programmable mode • Constant V or A selector w/ automatic crossover • No load detector w/ error message • Overload protection • Small footprint (< 0.06m2) 	
13.2	<p>Voltage:</p> <ul style="list-style-type: none"> • Minimum 10Volts • Maximum 300Volts ±10% • Adjustable in 1 volt increments • Voltage accuracy: ±2% of reading, minimum 3Volts 	
13.3	<p>Current:</p> <ul style="list-style-type: none"> • Minimum 4milliAmp • Maximum 400milliAmp ±10% • Adjustable in 1mA increments • Current accuracy: ±2% of reading, minimum 3mA 	
13.4	<p>Electrical requirement:</p> <ul style="list-style-type: none"> • 120V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	
13.5	<p>Mandatory accessories per system:</p> <ul style="list-style-type: none"> • Power cord • Replacement fuse 	
13.6	<p>Manual (English language):</p> <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
14	Vertical gel electrophoresis and transfer cell	
14.1	<p>Intended use:</p> <ul style="list-style-type: none"> • Polyacrylamide gel electrophoresis • Western transfer • 1st dimension of 2-D electrophoresis • Electroelution 	

14.2	Must accommodate all intended uses in 1 tank and lid kit	
14.3	Must accommodate 1 to 4 polyacrylamide gels in parallel	
14.4	Can accommodate pre-cast Polyacrylamide gels	
14.5	Gel dimensions: <ul style="list-style-type: none"> • Width: 80 ±6mm • Stacking length: 30mm ±5mm • Running length: 70mm ±5mm • Thickness: 0.75mm to 1.5mm (depending on available spacers) 	
14.6	Tank and lid: <ul style="list-style-type: none"> • Made of clear and transparent material • Power cables integrated to lid 	
14.7	Electrodes: <ul style="list-style-type: none"> • Made of platinum • Minimum 0.25mm diameter 	
14.8	Mandatory accessories per system: <ul style="list-style-type: none"> • All the necessary parts and components as required to prepare and perform one (1) to four (4) 0,75mm thick gel electrophoresis parallel run(s) w/ chosen samples • All the necessary parts and components as required to prepare and perform one (1) to two (2) parallel gel transfer run(s) • Four (4) 5-wells combs x 0.75mm thick • Four (4) 10-wells combs x 0.75mm thick • Four (4) 15-wells combs x 0.75mm thick • One (1) Casting device for 0.75mm gels • One (1) Transfer cooling device, if any 	
14.9	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
15	Power supply for vertical electrophoresis	

15.1	<p>Required features:</p> <ul style="list-style-type: none"> • Required output: <ul style="list-style-type: none"> ○ 500V ±10% ○ 2500mA ±10% ○ 500W ±10% • Principal intended uses: electrophoresis and transfer • Can accommodate four (4) electrophoresis cells in parallel • Timer: <ul style="list-style-type: none"> ○ Continuous mode ○ 0 to 99:59hours in 1min increments ○ 99999 volt-hour • LED display • Stop button • Run/Pause mode button • Volt, current or time programmable mode • Constant Volt, current or power selector w/ automatic crossover • No load detector w/ error message • Overload protection • Small footprint (< 0.10m2) 	
15.2	<p>Voltage:</p> <ul style="list-style-type: none"> • Minimum 10Volts • Maximum 500Volts • Adjustable in 1 volt increments • Voltage accuracy: ±2% of reading, minimum 3Volts 	
15.3	<p>Current:</p> <ul style="list-style-type: none"> • Minimum 10milliAmp • Maximum 2500milliAmp • Adjustable in 1mA increments • Current accuracy: ±2% of reading, minimum 3mA 	
15.4	<p>Power:</p> <ul style="list-style-type: none"> • Minimum 1W • Maximum 500W • Adjustable in 1W increments 	
15.5	<p>Electrical requirement:</p> <ul style="list-style-type: none"> • 120V/60Hz/single phase • CSA approved or equivalent (i.e. cUL compliant) 	
15.6	<p>Mandatory accessories per system:</p> <ul style="list-style-type: none"> • Power cord • One (1) replacement fuse 	
15.7	<p>Manual (English language):</p> <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	

16	Ice machine (flaker) w/ storage bin	
16.1	External dimensions: <ul style="list-style-type: none"> • Width : 575mm ±25mm (33.5in ±1in) • Depth : 875mm ±25mm (33.5in ±1in) • Height : 1850mm ±50mm (68.9in ±2in) 	
16.2	Self-standing	
16.3	External stainless steel construction (condenser and bin)	
16.4	Four (4) leveling feet	
16.5	Storage bin: <ul style="list-style-type: none"> • Stainless steel internal construction • 135kg ±15kg (300lbs ±33lbs) storage capacity • Wide access panel • Melt drain outlet 	
16.6	Air-cooled condenser: <ul style="list-style-type: none"> • Top-mounted • W/ removable and cleanable air filter • CFC-Free environment friendly coolant • Condensate outlet drain port 	
16.7	Ice maker: <ul style="list-style-type: none"> • Ice flakes maker • Daily volume production @ 21°C ambient and 10°C water: 200kg ±20kg (440lbs ±44lbs) • Stainless steel breaker 	
16.8	Status indicator panel: <ul style="list-style-type: none"> • Ice level adjustment control • Ice making status • Water feed status • Power status 	
16.9	Electrical requirement: <ul style="list-style-type: none"> • 120V/60Hz/single phase • CSA approved or equivalent (i.e. cUL compliant) 	

16.10	Mandatory accessories: <ul style="list-style-type: none"> • One (1) power cord per unit <ul style="list-style-type: none"> ○ Minimum 1830mm (6ft) Long • Four (4) scale remover kits • If applicable to proposed model: <ul style="list-style-type: none"> ○ Two (2) breaker bearing kits ○ Two (2) bearing greasing kits ○ One (1) replacement photo-electric eye • Two (2) ice scoops 	
16.11	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
17	Table-top, freeze dryer, 9L capacity, -85°C and two-stage rotary vane pump	
17.1	External dimensions: <ul style="list-style-type: none"> • Width : 375mm ±50mm (14.7in ±2in) • Depth : 700mm ±50mm (27.6in±2in) • Height : 450mm ±75mm (17.7in ±3in) 	
17.2	Integral condenser chamber: <ul style="list-style-type: none"> • Maximum condenser capacity: 9L ±1L (9.5qts±1,1qt) • Maximum ice condensing capacity per day: 5L ±0.5L (5.3qts; ±0,5qt) • Condenser made of stainless steel 304 • Internal condenser coil made of stainless steel 316L • Lowest condenser temperature: -85°C ±5°C (121°F ±10°F) 	
17.3	Compressors: <ul style="list-style-type: none"> • 2-stages (high and low) with a minimum combined output of 525W ±25W • Minimum 1/3HP each • Hermetic / sealed unit • Non-CFC environmentally friendly refrigerant/coolant 	
17.4	Control and display: <ul style="list-style-type: none"> • PLC-based controller • Programmable • Touch pad display 	
17.5	Exterior construction made of baked powder painted steel or epoxy coated steel	
17.6	Four (4) anti-slip foot pads	
17.7	Electrical requirement: <ul style="list-style-type: none"> • 208V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	

17.8	Mandatory accessories: <ul style="list-style-type: none"> One (1) Stainless steel drum manifold, 18-port One (1) Stainless steel bulk shelf rack, 3 shelves, unheated One (1) Stainless steel Tree-Type vertical manifold, 8-port Four (4) 1L (1qt) bottles of oil for the proposed vacuum pumps (start-up and replacement) 	
17.9	Manual (English language): <ul style="list-style-type: none"> Installation, Operation/User Manual Service Manual 	
18	Clean bench laminar flow hood, class ISO100, 1200mm (4ft) wide work surface	
18.1	External dimensions: <ul style="list-style-type: none"> Width : 1250mm ±25mm (49.2in ±1in) Depth : 800mm ±25mm (31.5in ±1in) Height: 2050mm ±50mm (80.7in ±2in) 	
18.2	Internal dimension: <ul style="list-style-type: none"> Width : 1175mm ±25mm (46.3in ±1in) Depth : 500mm ±25mm (19.7in ±1in) Height: 725mm ±50mm (28.5in ±2in) 	
18.3	Outward horizontal laminar flow: <ul style="list-style-type: none"> Factory set at 0,46m/s ±10% (90FPM±10%) Providing ISO 100 conditions in the working area w/ integrated 99.99% Hepa filter w/ removable fiberglass pre-filter Protected by fiber or metal grill 	
18.4	Control Panel: <ul style="list-style-type: none"> With the following information and switches: <ul style="list-style-type: none"> Blower circuit breaker Blower switch Fluorescent /LED lightning power switch Minihelic gauge Airflow control potentiometer Control panel must be non-proprietary Ergonomic location and access of control switches/toggles from working position 	
18.5	Fluorescent or LED light providing 1850Lux ±10% (175 foot-candle ±10%) on the work surface	
18.6	304-16Ga Stainless steel work surface	
18.7	External surfaces made of powder coated painted steel (except for the work area clear side walls)	

18.8	Powder coated painted steel base stand;	
18.9	w/ Four (4) leveling feet;	
18/10	Commutated Motor (ECM) brushless DC blower motor;	
18.11	Electrical requirement: <ul style="list-style-type: none"> • 120V/60Hz • CSA approved or equivalent (i.e. cUL compliant) 	
18.12	Mandatory accessories: <ul style="list-style-type: none"> • One (1) replacement 99.99% HEPA filter • One (1) replacement fiberglass pre-filter 	
18.13	Manual (English language): <ul style="list-style-type: none"> • Installation, Operation/User Manual • Service Manual 	
19	Stainless steel table	
19.1	Stainless steel bench table	
19.2	Self-standing	
19.3	3 pen drawers under the work surface (75 mm (3") high)	
19.4	Minimum 200 kg (441 lb.) capacity	
19.5	Minimum 75 mm (3") high backsplash	
19.6	Not required to be wired or piped for utilities	
19.7	Dimensions: 1220 mm W x 760 mm D x 890 mm H ± 5 0mm for all dimensions (48" W x 30" D x 35" H ± 2")	
20	Stainless steel table (large)	
20.1	Stainless steel bench table	
20.2	Self-standing	
20.3	3 pen drawers under the work surface (75 mm (3") high)	
20.4	Minimum 200 kg (441 lb.) capacity	
20.5	Minimum 75 mm high backsplash	

20.6	Not required to be wired or piped for utilities	
20.7	Dimensions: 1530 mm W x 760 mm D x 890 mm H ± 50 mm for all dimensions (60" W x 30" D x 35" H ± 2")	
21	Water bath, 12L, digital	
21.1	External Dimensions: 375 mm W x 387 mm D x 248 mm H ± 25 mm for all dimensions (14.75" W x 15.25" D x 9.75" H ± 1")	
21.2	Minimum 12 L (3.2 gal) capacity	
21.3	Stainless steel interior	
21.4	Digital control and display	
21.5	Temperature range from ambient to 99.9°C	
21.6	Temperature precision: ±0.1°C	
21.7	Countertop water bath	
21.8	Connects to NEMA 5-15P 120V/60Hz/15A receptacle	
22	Dry bath, two blocks	
22.1	Countertop dry block heater	
22.2	Temperature range from ambient to 130°C	
22.3	Temperature precision: ±0.5°C	
22.4	Digital control and display	
22.5	External Dimensions: 220 mm W x 360 mm D x 90 mm H ± 25 mm for all dimensions (8.7" W x 14.2" D x 3.6" H ± 1")	
22.6	Connects to NEMA 5-15P 120V/60Hz/15A receptacle	
22.7	Includes: tapered bottom centrifuge blocks <ul style="list-style-type: none"> • 20 x 1.5 ml • 30 x 0.5 ml and 20 x 0.2 ml 	

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23	Magnetic heating stir plate	
23.1	260 mm x 260 mm ± 25 mm (10.25" x 10.25" ± 1") surface	
23.2	Heating capacity: up to 6 L from ambient to 400°C	
23.3	Stirring speed: 60 to 1200 rpm	
23.4	External Dimensions: 290 mm W x 410 mm D x 100 mm H ± 25 mm for all dimensions (11.38" W x 16.25" D x 4" H ± 1")	
23.5	Electrical requirements: 110-120V/60Hz	

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ANNEX "B" – BASIS OF PAYMENT

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices. Customs duties are included. Applicable Taxes are extra, if applicable, and to be shown as a separate item on any resulting invoice.

Pricing must be firm (Canadian) unit price all costs associated with providing the requirement in accordance with requirement at Annex A, FOB destination.

Pricing must be in Canadian funds.

FOB Destination: Wills Transfer Ltd.
 3100 Swansea Crescent
 Ottawa, ON. K1G 3W4
 (613) 744-0970 ext. 201
 c/o Claudette Weedmark

Delivery for all items must be received at Wills Transfer Ltd on or before March 31, 2017.

Item	Description	Qty	Unit of Issue	Unit Price	Extended Price CND
1	<p>Laboratory table-top lyophilizer integrated system (pump, trap, rotor & centrifugal evaporator) in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario.</p> <p>Model Number: _____</p>	1	each	\$	\$
2	<p>Ultra-purified ASTM Type I water dispenser, 120L/h (2LPM) capacity in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario.</p> <p>Model Number: _____</p>	2	each	\$	\$

3	<p>Self-standing meat band saw in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario.</p> <p>Model Number: _____</p>	1	each	\$	\$
4	<p>Wheeled necropsy table for large animals w/ scissor-action lift, 1135kg (2500lbs) load capacity in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario.</p> <p>Model Number: _____</p>	1	each	\$	\$
5	<p>Wheeled adjunct necropsy table (or mobile exam table), fixed height in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario.</p> <p>Model Number: _____</p>	1	each	\$	\$
6	<p>Wheeled wet table, stainless steel in accordance with the mandatory specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario.</p> <p>Model Number: _____</p>	2	each	\$	\$

7	<p>Vibration dampening mount in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario.</p>	5	each	\$	\$
8	<p>Pipet plunger in accordance with the mandatory specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	1	each	\$	\$
9	<p>Rotary microtome, semi-motorized in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	1	each	\$	\$
10	<p>Mobile adjunct OT lamp, 140,000Lux in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	1	each	\$	\$
11	<p>Gel documentation system, highly versatile in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	2	each	\$	\$

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12	<p>Submerged horizontal gel electrophoresis cell (“wide mini-sub”) in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	6	each	\$	\$
13	<p>Basic power supply for submerged horizontal electrophoresis in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p>	6	each	\$	\$
14	<p>Vertical gel electrophoresis and transfer cell in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p>	5	each	\$	\$
15	<p>Power supply for vertical electrophoresis in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p>	5	each	\$	\$
16	<p>Ice machine (flaker) w/storage bin in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	1	each	\$	\$

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17	<p>Table-top, freeze dryer, 9L capacity, - 85°C and two-stage rotary vane pump in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	2	each	\$	\$
18	<p>Clean bench laminar flow hood, class ISO100, 1200mm (4ft) wide work surface in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	1	each	\$	\$
19	<p>Stainless steel table in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	5	each	\$	\$
20	<p>Stainless steel table (large) in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	4	each	\$	\$

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21	<p>Water bath, 12L, digital in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	8	each	\$	\$
22	<p>Dry bath, two blocks in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	10	each	\$	\$
23	<p>Magnetic heating stir plate in accordance with the mandatory performance specifications detailed in Annex A – Requirement.</p> <p>All inclusive pricing including freight and offloading charges, FOB Destination to Wills Transfer Ltd., Ottawa, Ontario</p> <p>Model Number: _____</p>	12	each	\$	\$

Financial Evaluation:

The responsive bid with the lowest evaluated price on an item by item basis will be recommended for award of a contract.

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ANNEX "C" - ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts any of the following Electronic Payment Instrument(s):

Direct Deposit (Domestic and International)