

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**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 FREEZE DRYER	
Solicitation No. - N° de l'invitation 5P300-110458/B	Date 2012-03-15
Client Reference No. - N° de référence du client 5P300-110458	
GETS Reference No. - N° de référence de SEAG PW-\$\$HP-918-60100	
File No. - N° de dossier hp918.5P300-110458	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-04-04	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
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: Huda Dahir	Buyer Id - Id de l'acheteur hp918
Telephone No. - N° de téléphone (819) 956-1702 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

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

Vehicles & Industrial Products Division
11 Laurier St./11, rue Laurier
7A2, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

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. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The requirement is detailed under "Annex "A" - Pricing", "Annex "B" - Technical Description" and "Appendix "1" - Technical Information Questionnaire".

3. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

4. Interpretation

The mandatory requirements stated in this Request for Proposal use the words "shall" or "must" or "mandatory". Proposals not meeting all of the mandatory requirements will be given no further consideration.

PART 2 - BIDDER INSTRUCTIONS

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 (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) 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 **(2012-03-02)** 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: sixty (60) days
Insert: ninety (90) days

Subsection **12.1 of 2003**, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Replace subsection 1. (a) and (b) with the following:

1. Canada may reject an offer where any of the following circumstances is present:
 - (a) the Bidder is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which renders the Bidder ineligible to bid on the requirement;
 - (b) an employee, or subcontractor included as part of the bid, is subject to a Vendor Performance Corrective Measure, under the Vendor Performance Corrective Measure Policy, which would render that employee or subcontractor ineligible to bid on the requirement, or the portion of the requirement the employee or subcontractor is to perform;

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.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **seven (7) 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

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

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.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use paper containing fibre certified as originating from a sustainably-managed forest and/or 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.

2. 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. Bidders must complete and submit the attached Annex "B" - Technical Description and Appendix "1" - Bid Preparation Instructions - Technical Information by the bid closing date and time.

2.1 Equivalent Products

In order to be considered for the evaluation of an equivalent product, Bidders must provide all required technical information.

2.1.1 Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:

- (a) designates the brand name, model and/or part number of the substitute product;
- (b) states that the substitute product is fully interchangeable with the item specified;
- (c) provides complete specifications and descriptive literature for each substitute product;
- (d) provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and
- (e) clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.

2.1.2 Products offered as equivalent in form, fit, function and quality will not be considered if:

- (a) the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
- (b) the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.

2.1.3 In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

3. Financial Bid

3.1 Bidders must submit their financial bid in accordance with the Basis of Payment identified in **Part 6 - RESULTING CONTRACT CLAUSES**, at **Article 6.1 Basis of Payment -Firm Price**.

3.2 The Bidder must submit firm unit prices in "Annex "A" - Pricing" only. No prices must be indicated in any other section of the bid.

3.3 SACC Manual Clauses

C3011T	Exchange Rate Fluctuation	2010-01-11
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4. Certifications and Additional Information

Bidders must submit the certifications required under Part 5.

4.1 Additional Information

Canada requests that bidders submit the following information:

4.1.1 Delivery Date

Delivery is highly desirable for **April 30, 2012.**

Item 001 (Freeze Dryer): _____ **Calendar days** from the effective date of the contract.

4.2 Supplier's Representative

Name and telephone number of the person responsible for :

General enquiries

Name: _____

Title: _____

Telephone No. _____

Solicitation No. - N° de l'invitation

5P300-110458/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

hp918

Client Ref. No. - N° de réf. du client

5P300-110458

File No. - N° du dossier

hp9185P300-110458

CCC No./N° CCC - FMS No/ N° VME

Facsimile No.

E-mail address:

Delivery follow-up

Name:

Title:

Telephone No.

Facsimile No.

E-mail address:

4.3 Optional Extended Warranty Period

Canada requests that the Bidder indicate if an optional extended warranty period is being offered that exceeds the minimum warranty period of **twenty-four (24) months**.

Optional warranty coverage available for two (2) additional periods of twelve (12) months each:

YES _____ NO _____

If yes, Canada requests that the Bidder provide details and pricing information of any optional extended warranty period available for the equipment and any related items.

Any optional extended warranty period offered will not be included in the financial evaluation.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

- 1.1 Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- 1.2 An evaluation team composed of representatives of Canada will evaluate the bids.
- 1.3 Proposals not meeting all of the requirements identified as "mandatory" will be considered non responsive and no further consideration will be given to the bid.

2. Technical Evaluation

- 2.1 At time of bid closing, a proposal must include all technical information requested in this RFP, to enable a full and complete evaluation of the product(s) offered.
- 2.2 The technical evaluation is for the purpose of determining if the goods and/or services offered meet all mandatory technical criteria.

3. Financial Evaluation

- 3.1 Unit prices will be evaluated in accordance with the proposed prices identified in "Annex "A" - Pricing" and the mandatory Basis of Payment as detailed in **Part 6 - RESULTING CONTRACT CLAUSES, at Article 6.1 Basis of Payment -Firm Price** herein.

4. Basis of Selection

- 4.1 A bid must comply with all requirements of the bid solicitation 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.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications is not completed and 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.

1.1 Federal Contractors Program - over \$25,000 and below \$200,000

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- (d) () has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: _____.

Further information on the FCP is available on the HRSDC Web site.

[Http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml](http://www.hrsdc.gc.ca/eng/labour/equality/fcp/index.shtml)

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The Contractor must provide the items detailed under the "Annex "A" - Pricing" and "Annex "B" - Technical Description".

2.1 Optional Extended Warranty Period

The Contractor grants to Canada the irrevocable option to extend the warranty period for an additional **(to be inserted by PWGSC)** months, under the same terms and conditions and at the price stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option within ninety (90) calendar days after contract award by sending a written notice to the Contractor.

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 (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>) issued by Public Works and Government Services Canada.

3.1 General Conditions

2010A (2012-03-02) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

3.2 Subsection 09 2010A (2012-03-02) is amended as follows:

At paragraph 1, **delete:** "The warranty period will be twelve (12) months after delivery and acceptance of the Work or the length of the Contractor's or manufacturer's standard warranty period, whichever is longer."

At paragraph 1, **insert:** "The warranty period will be twenty-four (24) months after delivery and acceptance of the Work or the length of the Contractor's or manufacturer's standard warranty period, whichever is longer."

4. Term of Contract

4.1 Delivery Date

The Contractor must make the delivery as follows:

Item 001 (Freeze Dryer): must be delivered on or before _____ *(To be inserted by PWGSC at time of contract award.)*

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Huda Dahir

Supply Officer

Public Works and Government Services Canada - Acquisitions Branch

LEFT Directorate, HP Division,

7A2, Place du Portage, Phase 3, 11 Laurier Street, Gatineau Quebec. K1A 0S5

Telephone: 819 956-1702

E-mail address: huda.dahir@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.

5.2 Procurement Authority

The Procurement Authority for the Contract is: *(To be inserted by PWGSC at time of contract award.)*

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

5.3 Contractor's Representative

Name and telephone number of the person responsible for :

General enquiries

Name: _____ *(To be completed by the bidder.)*

Title: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

Delivery follow-up

Name: _____ *(To be completed by the bidder.)*

Title: _____

Telephone: ____ - ____ - ____

Facsimile: ____ - ____ - ____

E-mail: _____

6. Payment

6.1 Basis of Payment -Firm Unit Price

- 6.1.1 In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price(s), as specified in "Annex "A" - Pricing".
- 6.1.2 All firm unit prices in Canadian dollars must be Delivery Duty Paid (DDP) at destination, Incoterms 2000, including Canadian Custom Duties and Excise taxes where applicable, Goods and Services tax (GST) or Harmonized Sales Tax (HST) extra, if applicable.
- 6.1.3 For the firm price portion of the Work only, 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.

6.2 SACC Manual Clauses

C2000C	Taxes - Foreign-based Contractor	2007-11-30
H1000C	Single Payment	2008-05-12

7. Invoicing Instructions

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.

7.1. Invoices must be distributed as follows:

- (a) The original and one (1) copy must be forwarded to the consignee for certification and payment;
- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
- (c) One (1) copy must be forwarded to the following address:

Parks Canada Agency

1800 Walkley Road

Ottawa, ON

K1A 0M5

Attention: to be inserted by PWGSC

8. Certifications

Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for Default.

9. Applicable Laws

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

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) 2010A (2012-03-02) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Pricing;
- (d) Annex "B" - Technical Description
- (e) Appendix "1" Bid Preparation Instructions - Technical Information
- (f) the Contractor's bid dated _____

11. SACC Manual Clauses

B7500C	Excess Goods	2006-06-16
D2000C	Marking	2007-11-30
D2001C	Labelling	2007-11-30
D2025C	Wood Packaging Materials	2010-01-11
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance	2008-05-12

12. Shipping Instructions - DDP Destination

Goods must be consigned and delivered to the destination specified in the contract:

Incoterms 2000 "DDP Delivered Duty Paid" :

Parks Canada Agency
 1800 Walkley Road
 Ottawa, ON
 K1A 0M5

Solicitation No. - N° de l'invitation

5P300-110458/B

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

hp918

Client Ref. No. - N° de réf. du client

5P300-110458

File No. - N° du dossier

hp9185P300-110458

CCC No./N° CCC - FMS No/ N° VME

ANNEX "A" - Pricing

ITEM 001: VACUUM FREEZE DRYER

Firm unit price of \$_____ (CDN)

Note: Deliverables include on-site familiarization training for three (3) persons to be delivered within twenty-one (21) calendar days of equipment installation, warranty letter(s), and a quantity of one (1) English manual and one (1) French manual.

ITEM 002: OPTIONAL EXTENDED WARRANTY

If exercised, the warranty period will be extended for an additional period of _____ months/calendar days.

Firm unit price of \$_____ (CDN)

ANNEX "B" – TECHNICAL DESCRIPTION – Vacuum Freeze Dryer March 2012

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BACKGROUND

Parks Canada Agency's Ontario Service Centre requires a specialized and extra large vacuum freeze-dryer (VFD) with ultra-low refrigeration to preserve waterlogged archaeological organic artefacts recovered from underwater or land sites.

NOTE 1: The laboratory restrictions for installation of the unit is a maximum of 15 feet long x 5 feet 9 inches wide x 9 feet 5 inches high.

Note 2: Deliverables include on-site familiarization training, warranty letter(s), and manual(s). Familiarization training to be offered within 4 weeks of delivery of unit.

The VFD must have:

- A product chamber with an internal length of 82 inches (± 4 inches) and an internal diameter of 36 inches (± 4 inches).
- Between 4 and 6 shelf levels with 2 or more removable trays per shelf level and a maximum usable shelf area of at least 78.9 sq. feet.
- A wrap around (spiral) cooling coil (not a mullion system) for the product chamber so the full width of the shelves is available for objects. **NOTE:** There can be no chilling coils dividing the shelves. The chilling coils must be located around the outside of the product chamber.
- Two-stage 590 Litre/minute vacuum pump with oil mist eliminator.
- Vacuum pump capable of pulling down to 100mT within 60 minutes (± 15 minutes) of starting
- A refrigeration system to provide a range of product temperatures with a minimum temperature of -30°C ($\pm 5^{\circ}\text{C}$).
- A refrigeration system to provide a range of condenser temperatures with a minimum temperature of -70°C ($\pm 5^{\circ}\text{C}$) with a single stage auto-cascade cycle.
- A minimum 24-hour deposition rate of 0.58 litres/hour.
- Refrigeration systems using CFC free refrigerants.
- A condenser defrost with auto shut off.
- A power outage recovery system that returns the system to operation after a power outage
- Condenser and vacuum pump alarms when units malfunction.
- Canadian Standards Association (CSA) approvals with all documentation and approval sticker must be present on the equipment.

Optional Items - please state whether available and quote for additional costs:

- Stainless steel condenser chamber
- “Power Save” feature to reduce power usage and wear on the vacuum pump
- an electric isolation valve between the product and condenser chambers
- alarm system that warns a power outage has occurred
- an “Auto Mode” which automates the chilling of condenser and pull down of vacuum.

Please specify exact electrical requirements for this unit.

APPENDIX "1" to Annex "B" – Technical Information Questionnaire

Scope – This Questionnaire covers technical information to be supplied by the Contractor. This information is required for the technical assessment of the equipment offered. If a paragraph item does not apply to the configuration, insert N/A (not applicable).

NOTE: It is the Bidder's responsibility to clarify outstanding technical issues, by written request, to the Contracting Authority prior to bid submission and in accordance with the terms of the solicitation.

1. The product chamber is at least 80 inches (± 4 inches) in length
 Yes____ No____
 Specify the product chamber length in inches here: _____
2. Has between four and six shelf levels
 Yes____ No____
 Specify the number of shelf levels on the offered product here: _____
3. At least 2 trays per shelf level
 Yes____ No____
 Specify the number of trays per level here: _____
4. A minimum usable shelf area of 78 square feet
 Yes____ No____
 Specify the minimum usable shelf area here: _____
5. Wrap around (spiral) cooling coil as per technical description Yes____
 No____
6. Two-stage 590L/minute vacuum pump with oil mist eliminator
 Yes____ No____
7. Vacuum pulls to 100 mTorr within 60 minutes (± 15 minutes) of starting
 Yes____ No____
 Specify the time in minutes it takes to reach 100 mTorr here: _____
8. Refrigeration system with product temperatures reaching at least -30°C ($\pm 5^{\circ}\text{C}$)
 Yes____
 No____
 Specify the product temperatures in Celsius here: _____
9. Refrigeration system with condenser temperatures down to of -70°C ($\pm 5^{\circ}\text{C}$)
 Yes____ No____
 Specify the condenser temperatures in Celsius here: _____

