

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
PWGSC/TPSGC Acquisitions  
1045 Main Street  
1st Floor, Lobby C  
Unit 108  
Moncton, NB E1C 1H1  
Bid Fax: (506) 851-6759

**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**

<b>Title - Sujet</b> Heat Exchangers/Storage Tanks	
<b>Solicitation No. - N° de l'invitation</b> W0105-14V009/A	<b>Date</b> 2014-08-01
<b>Client Reference No. - N° de référence du client</b> W0105-14V009	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MCT-011-4877	
<b>File No. - N° de dossier</b> MCT-4-37043 (011)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2014-09-15</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Sharpe, Charlene A.	<b>Buyer Id - Id de l'acheteur</b> mct011
<b>Telephone No. - N° de téléphone</b> (506) 851-3467 ( )	<b>FAX No. - N° de FAX</b> (506) 851-6759
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE 5 ESU ENGINEER SQUADRON BLDG B-18 CFB Gagetown OROMOCTO New Brunswick E2V4J5 Canada	

**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**

NB / PEI Division - Moncton Acquisitions Office  
1045 Main Street  
1st Floor, Lobby C  
Unit 108  
Moncton, NB E1C 1H1

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

Solicitation No. - N° de l'invitation

W0105-14V009/A

Amd. No. - N° de la modif.

File No. - N° du dossier

MCT-4-37043

Buyer ID - Id de l'acheteur

mct011

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

W0105-14V009

CCC No./N° CCC - FMS No/ N° VME

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**TITLE: Heat Exchanger and Storage Tank**

**PART 1 - GENERAL INFORMATION**

**1. Requirement - Bid**

The requirement is detailed under Article 2 of the resulting contract clauses.

*(Derived from - Provenant de: B4008T, 2014/06/26 )*

**2. 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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

**3. 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**

**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)* (<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 (2014/06/26) 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: one hundred twenty (120) days

**1.1 SACC Manual Clauses**

<b>SACC Reference</b>	<b>Section</b>	<b>Date</b>
C9000T	Pricing	2010/08/16

## **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.

Due to the nature of the bid solicitation, bids **transmitted by electronic mail to PWGSC will not be accepted.**

### **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 ten (10) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

*(Derived from - Provenant de: A9076T, 2007/05/25 )*

## **3. Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than ten (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.

## **4. Applicable Laws**

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

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 provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies)  
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.

Bidders must provide shop drawings WITH their bid.

#### **Section II: Financial Bid**

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

##### **1.1 Exchange Rate Fluctuation**

C3011T (2013/11/06), Exchange Rate Fluctuation

#### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **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.

#### **1.1 Technical Evaluation**

##### **1.1.1 Mandatory Technical Criteria**

Mandatory Technical Criteria as specified in Annexes A and B.

#### **1.2 Financial Evaluation**

<b>SACC Reference</b>	<b>Section</b>	<b>Date</b>
A0220T	Evaluation of Price - Bid	2014/06/26

### **2. Basis of Selection**

<b>SACC Reference</b>	<b>Section</b>	<b>Date</b>
A0031T	Basis of Selection - Mandatory Technical Criteria	2010/08/16

## **PART 5 - CERTIFICATIONS**

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default in carrying out any of its obligations under the Contract, 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 may render the bid non-responsive or constitute a default under the Contract.

### **1. Certifications Required Precedent to Contract Award**

#### **1.1 Integrity Provisions - Associated Information**

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions 2003. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

#### **1.2 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

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.

## **PART 6 - RESULTING CONTRACT CLAUSES**

### **1. Security Requirement**

There is **no security requirement** applicable to this Contract.

### **2. Requirement - Contract**

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

*(Derived from - Provenant de: B4008C, 2014/06/26 )*

### **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.

#### **3.1 General Conditions**

2010A (2014/06/26), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### **3.2 Supplemental General Conditions**

4011 (2012/07/16) Goods – Medium Complexity, apply to and form part of the Contract.

### **4. Term of Contract**

#### **4.1 Delivery Date**

All the deliverables must be received on or before eight (8) weeks following contract award.

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Charlene Sharpe

Acting Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
1045 Main Street, Unit 108  
Moncton, NB E1C 1H1  
Telephone: (506) 851-3467  
Facsimile: (506) 851-6759  
E-mail address: Charlene.Sharpe@pwgsc-tps.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 Project Authority

The Project Authority for the Contract is: ***will be identified at contract award.***

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone : \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

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 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.

## 5.3 Contractor's Representative ***Bidders are to provide the following information:***

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail: \_\_\_\_\_

## 6. Payment

### 6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit price(s), as specified in Annex C, for a cost of \$\_\_\_\_\_ ***insert the amount at contract award.*** 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.

*(Derived from - Provenant de: C0207C, 2013/04/25 )*

## **6.2 Limitation of Price**

SACC Manual clause C6000C (2011/05/16) Limitation of Price

## **6.3 SACC Manual Clauses**

<b>SACC Reference</b>	<b>Section</b>	<b>Date</b>
H1000C	Single Payment	2008/05/12

## **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.

*(Derived from - Provenant de: H5001C, 2008/12/12 )*

## **8. Certifications**

### **8.1 Compliance**

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if 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 New Brunswick.

## **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 supplemental general conditions 4011 (2012/07/16), Goods - Medium Complexity;
- (c) the general conditions 2010A (2014/06/26), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement; and
- (e) the Contractor's bid dated \_\_\_\_\_

**11. SACC Manual Clauses**

<b>SACC Reference</b>	<b>Section</b>	<b>Date</b>
A9062C	Canadian Forces Site Regulations	2011/05/16
B1501C	Electrical Equipment	2006/06/16
B7500C	Excess Goods	2006/06/16
G1005C	Insurance	2008/05/12

**12. Inspection and Acceptance**

The Project 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.

*(Derived from – Provenant de: D5328C, 2014/06/16 )*

**13. Shipping Instructions - Delivery at Destination**

Goods must be consigned to the destination specified in the Contract and Delivered Duty Paid (DDP) 5 ESU Engineer Squadron, Building B-18, CFB Gagetown, Oromocto, New Brunswick, Incoterms 2000 for shipments from a commercial contractor.

*(Derived from - Provenant de: D4001C, 2008/12/12 )*

**ANNEX A**  
**REQUIREMENT**

The Department of National Defence, 5 ESU Engineer Squadron, CFB Gagetown located in Oromocto, New Brunswick, requires the supply and delivery of six (6) heat exchangers and storage tanks as per the specifications listed in Annexes B and D.

Deliverables:

The Contractor will provide the following heat exchangers and storage tanks:

- Three (3) as per drawings WO# 268854, 268856 and 268850 (900 mm X 2400 mm);
- Two (2) as per drawings WO# 268853 and 268851 (1050 mm X 2700 mm); and
- One (1) as per drawing WO# 268847 (600 mm X 1500 mm).

Units are to be shipped FOB Destination to 5 ESU Engineer Squadron, Building B-18, CFB Gagetown, Oromocto, New Brunswick.

**ANNEX B**

**DRAWINGS**

(see attached document)

**ANNEX C**  
**BASIS OF PAYMENT**

Item No.	Description	Unit of Issue	Quantity	Unit Price	Extended Price
1	Heat exchanger and storage tank, 900 mm X 2400 mm	Each	3	\$ _____	\$ _____
2	Heat exchanger and storage tank, 1050 mm X 2700 mm	Each	2	\$ _____	\$ _____
3	Heat exchanger and storage tank, 600 mm X 1500 mm	Each	1	\$ _____	\$ _____
4	Delivery charges	Lot	1	\$ _____	\$ _____
<b>Subtotal \$</b>					_____
<b>HST 13% \$</b>					_____
<b>Total \$</b>					_____

**ANNEX D**

**TECHNICAL EVALUATION CRITERIA**

Bidders are to provide heat exchangers and storage tanks meeting all of the following mandatory technical specifications. Those not meeting these mandatory technical specifications will be considered non-compliant and given no further consideration:

Please note: the specifications listed below for the tanks that we will be ordering (6 in total) will all be the same (**EXCEPT** for the width and length, see attached Annex B drawings for sizes):

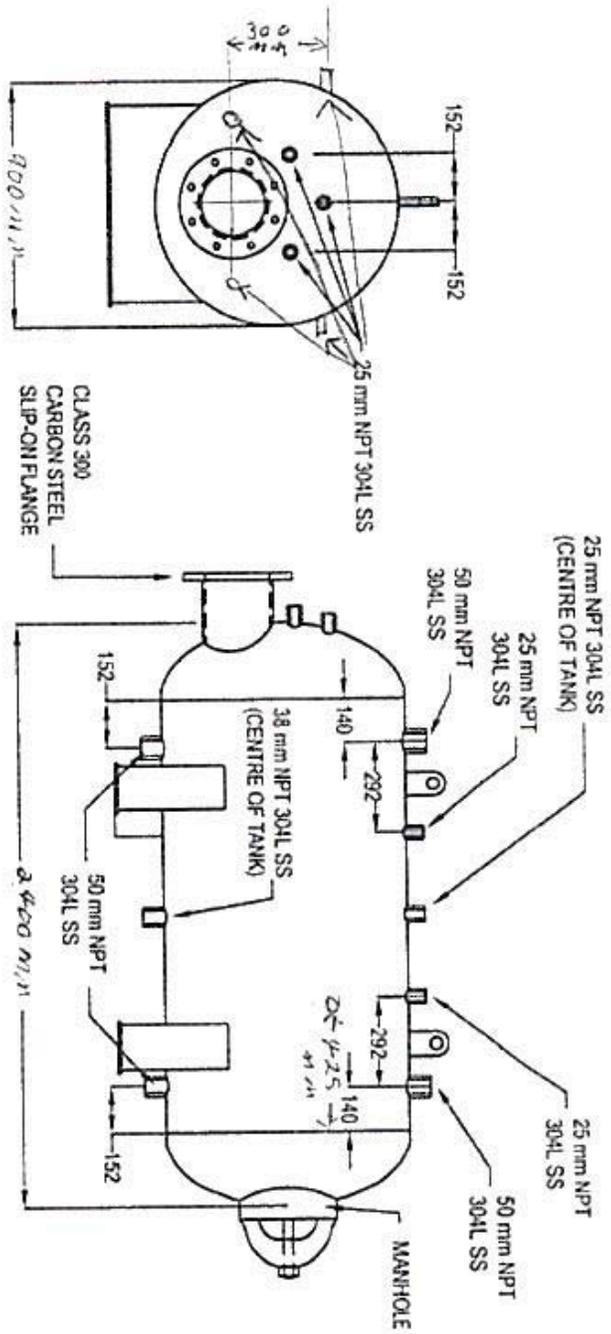
<b>ITEM</b>	<b>DESCRIPTION</b>	<b>MET / NOT MET</b>
1	All tanks and parts are to be stainless steel.	
2	Tank Flange: 300 pound, 6 inch, 12 bolt hole with 1/8 inch raised face, 8 inch long neck required from tank to flange and measured from the center crown of tank.	
3	Head Flange: 300 pound, 6 inch , 12 bolt hole with 1/8 raised face with two 1 inch takeoffs and with 300 pound flanges with 1/8 inch raised face coming straight off the front of the <b>HEAD</b> are required.	
4	Tube Bundle: Stainless steel tube bundle reaching to a length of 75% of overall tank length.	

**As well, Bidders are to provide shop drawings WITH their bid**, demonstrating how they meet all these specifications as well as Annex B, the drawings supplied by the client. Bidders not providing shop drawings will be considered non-compliant and given no further consideration.



# 268850

A4



**NOTES:**  
 BUILT AS PER ASME CODE SEC 8 DIV 1  
 DESIGN PRESSURE 900 kPa  
 DESIGN TEMPERATURE 100°C  
 MATERIAL SA240-304L  
 CAPACITY 1200 L

NPT = NATIONAL PIPE THREAD  
 SS = STAINLESS STEEL

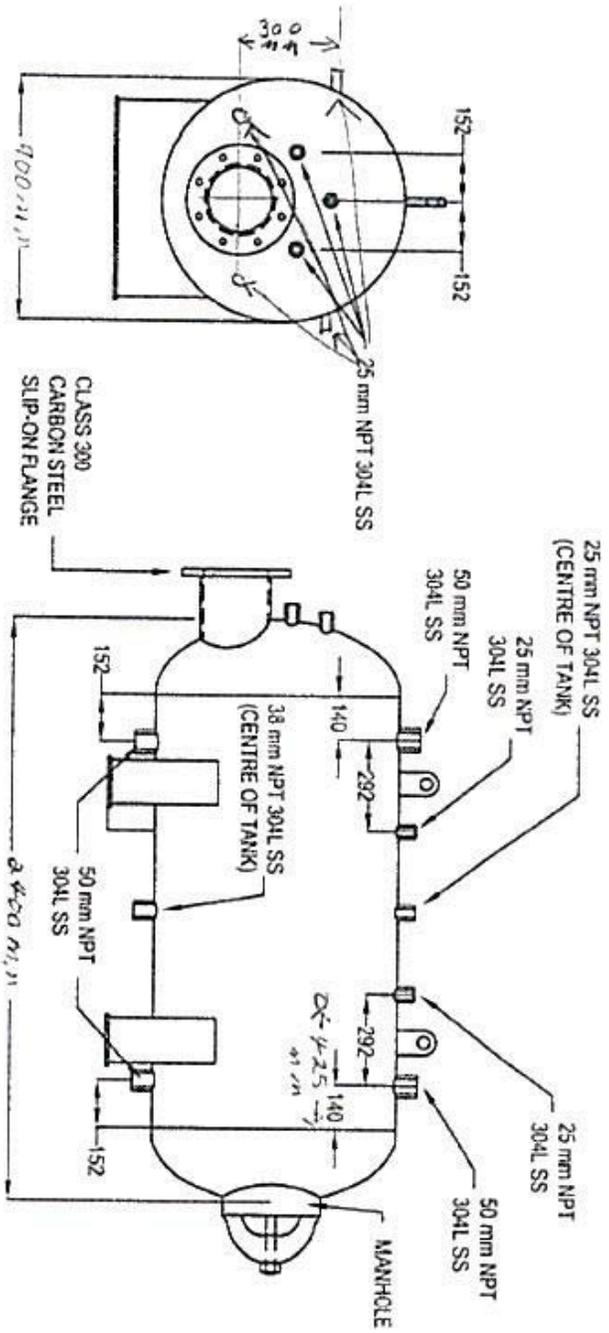
**PACKAGED HEAT EXCHANGER  
 AND STORAGE TANK**

PROJECT:  
 PROJECT:  
 SUBJECT:  
 SUJET:  
 DATE:

APPROVED:  
 APPROUVÉ:  
 PAR:  
 SCALE:  
 ECHELLE: 1:20  
 PROJECT NO:  
 NUMÉRO DU PROJET:  
 DWG NO:  
 NUMÉRO DU DESSIN:

# 268856

B9



**NOTES:**  
 BUILT AS PER ASME CODE SEC 8 DIV 1  
 DESIGN PRESSURE 960 kPa  
 DESIGN TEMPERATURE 100°C  
 MATERIAL SA240-304L  
 CAPACITY 1200 L

NPT = NATIONAL PIPE THREAD  
 SS = STAINLESS STEEL

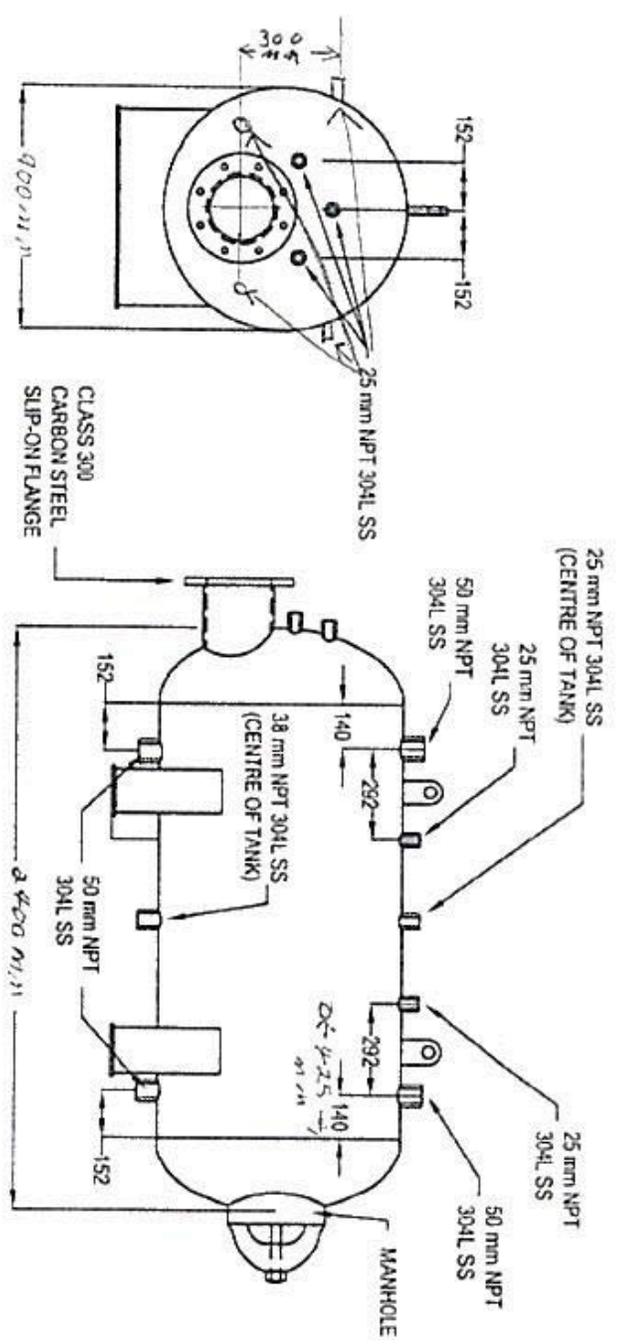
**PACKAGED HEAT EXCHANGER  
 AND STORAGE TANK**

PROJECT:	APPROVED:
PROJET:	APPROUVÉ:
SUBJECT:	PAR:
SUJET:	
DATE:	SCALE:
	ÉCHELLE:
	PROJECT NO.:
	NUMÉRO DU PROJET:
	DWG NO.:
	NUMÉRO DU DESSIN:

#1 268854

K 1

ANNEX B



**NOTES:**  
 BUILT AS PER ASME CODE SEC 8 DIV 1  
 DESIGN PRESSURE 900 kPa  
 DESIGN TEMPERATURE 100°C  
 MATERIAL SA240-304L  
 CAPACITY 1200 L

NPT = NATIONAL PIPE THREAD  
 SS = STAINLESS STEEL

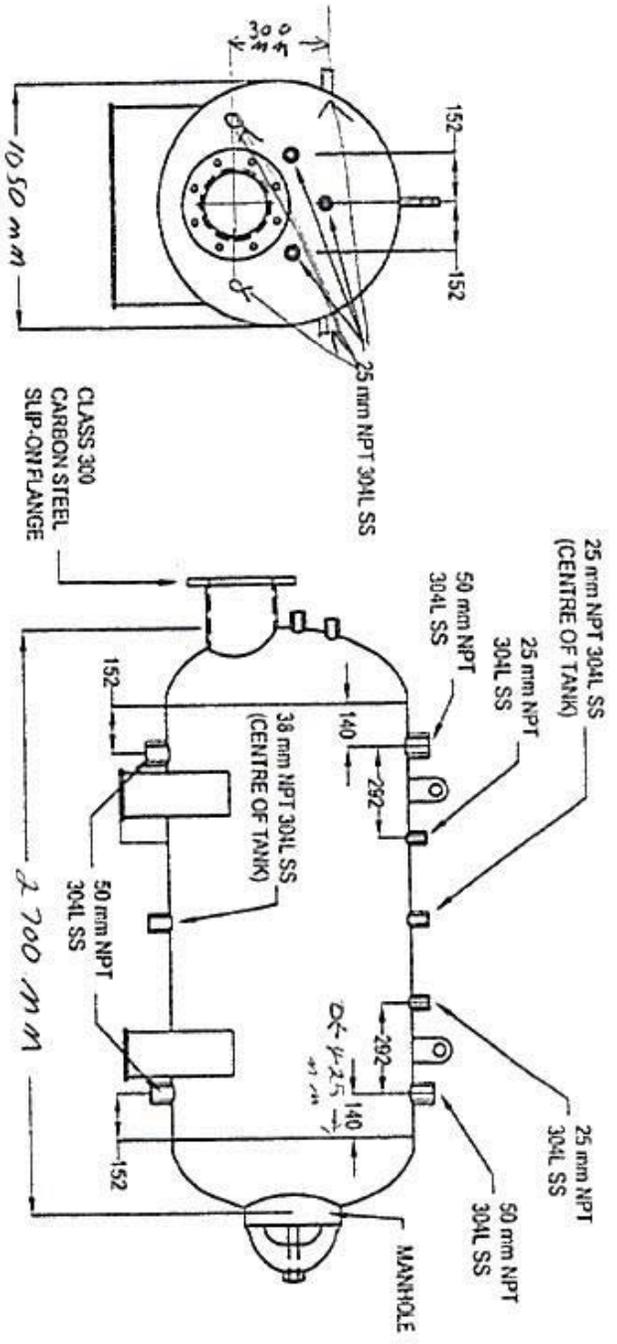
**PROJECT:** PACKAGED HEAT EXCHANGER  
**PROJ:** AND STORAGE TANK  
**SUBJECT:**

**SUBJECT:**  
**SUJET:**  
**DATE:**

APPROVED:	
APPROUVE:	
PAR:	
SCALE:	1:20
ÉCHELLE:	
PROJECT NO.:	
NUMÉRO DU PROJET:	
DWG NO.:	
NUMÉRO DU DESSIN:	

# 268851

H/16



**NOTES:**  
 BUILT AS PER ASME CODE SEC 8 DIV 1  
 DESIGN PRESSURE 900 kPa  
 DESIGN TEMPERATURE 100°C  
 MATERIAL SA240-304L  
 CAPACITY 1200 L

NPT = NATIONAL PIPE THREAD  
 SS = STAINLESS STEEL

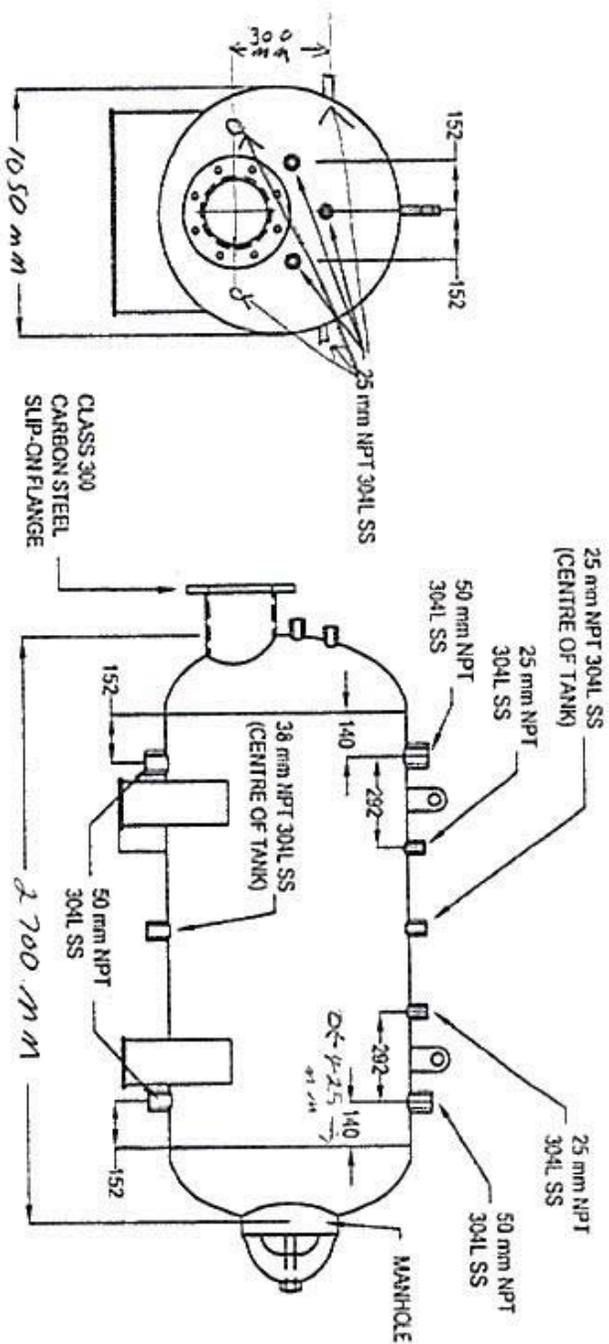
**PACKAGED HEAT EXCHANGER  
 AND STORAGE TANK**

PROJECT:  
 PROJET:  
 SUBJECT:  
 SUJET:  
 DATE:

APPROVED:  
 APPROUVÉ:  
 SCALE:  
 ECHELLE: 1:20  
 PROJECT NO:  
 NUMERO DU PROJET:  
 DWG NO:  
 NUMERO DU DESSIN:

# 268853

D/5



**NOTES:**  
 BUILT AS PER ASME CODE SEC 8 DIV 1  
 DESIGN PRESSURE 900 kPa  
 DESIGN TEMPERATURE 100°C  
 MATERIAL SA240-304L  
 CAPACITY 1200 L

NPT = NATIONAL PIPE THREAD  
 SS = STAINLESS STEEL

**PACKAGED HEAT EXCHANGER  
 AND STORAGE TANK**

PROJECT:  
 PROJET:  
 SUBJECT:  
 SUJET:  
 DATE:

APPROVED:  
 APPROUVÉ:  
 PNR:  
 SCALE:  
 ÉCHELLE: 1:20  
 PROJECT NO:  
 NUMÉRO DU PROJET:  
 DWG NO:  
 NUMÉRO DU DESSIN:

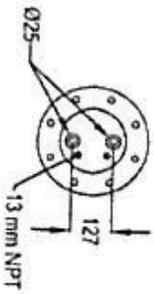


National  
Defence

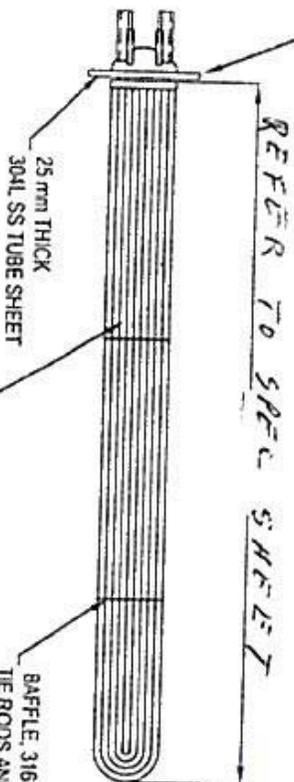
Défense  
nationale

ANNEX B-1

CLASS 300 CARBON STEEL  
FLANGED HEAD



**FRONT VIEW**  
SCALE: 1:20



**SIDE VIEW**  
SCALE: 1:20

DESIGN DESCRIPTION

AS PER ASME CODE SEC 8 DIV 1, 2001

TUBE SIDE INTERNAL

MAWP 2070 kPa TEMPERATURE 190°C

MATERIAL DESCRIPTION

TUBES: 304L STAINLESS STEEL, 19 mm NOMINAL DIAMETER  
TUBESHEET: 304L STAINLESS STEEL, 25 mm THICK

NPT = NATIONAL PIPE THREAD  
SS = STAINLESS STEEL

PROJECT: PROJECT: SUBJECT: SUBJECT: DATE:	<b>PACKAGED HEAT EXCHANGER AND STORAGE TANK HEAT EXCHANGER</b>	APPROVED: APPROUVE PAR:	
		SCALE: ECHELLE:	1:20
		PROJECT NO: NUMÉRO DU PROJET:	
		DWG NO: NUMÉRO DU DESSIN:	