

**FORM A: BID**  
(See B8)

1. Contract Title SUPPLY AND DELIVERY OF SPIRAL HEAT EXCHANGERS

2. Bidder

\_\_\_\_\_  
Name of Bidder

\_\_\_\_\_  
Street

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
Facsimile Number

(Mailing address if different)

\_\_\_\_\_  
Street or P.O. Box

\_\_\_\_\_  
City

\_\_\_\_\_  
Province

\_\_\_\_\_  
Postal Code

The Bidder is:

(Choose one)

a sole proprietor

a partnership

a corporation

carrying on business under the above name.

3. Contact Person

The Bidder hereby authorizes the following contact person to represent the Bidder for purposes of the Bid.

\_\_\_\_\_  
Contact Person

\_\_\_\_\_  
Title

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
Facsimile Number

4. Definitions

All capitalized terms used in the Contract shall have the meanings ascribed to them in the General Conditions.

5. Offer

The Bidder hereby offers to perform the Work in accordance with the Contract for the price(s), in Canadian funds, set out on Form B: Prices, appended hereto.

6. Execution of Contract

The Bidder agrees to execute and return the Contract no later than seven (7) Calendar Days after receipt of the Contract, in the manner specified in C.4.

7. Commencement of the Work The Bidder agrees that no Work shall commence until he is in receipt of a notice of award from the Award Authority authorizing the commencement of the Work.

8. Contract The Bidder agrees that the Bid Opportunity in its entirety shall be deemed to be incorporated in and to form a part of this offer notwithstanding that not all parts thereof are necessarily attached to or accompany this Bid.

9. Addenda The Bidder certifies that the following addenda have been received and agrees that they shall be deemed to form a part of the Contract:

No.	_____	Dated	_____
	_____		_____
	_____		_____

10. Time This offer shall be open for acceptance, binding and irrevocable for a period of sixty (60) Calendar Days following the Submission Deadline.

11. Signatures The Bidder or the Bidder's authorized official or officials have signed this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

Signature of Bidder or  
Bidder's Authorized Official or Officials

\_\_\_\_\_

(Print here name and official capacity of individual whose signature appears above)

\_\_\_\_\_

(Print here name and official capacity of individual whose signature appears above)

SEAL

**FORM B: PRICES**  
(See B9)

**SUPPLY AND DELIVERY OF SPIRAL HEAT EXCHANGERS**

**UNIT PRICES**

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QTY	UNIT PRICE	AMOUNT
1.	Supply and Delivery of Spiral Heat Exchangers	E3	each	6	_____	_____

TOTAL BID PRICE (GST and MRST extra) (in figures) \$ \_\_\_\_\_

(in words) \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Name of Bidder

**FORM N: DETAILED SPECIFICATIONS**  
 (See E3)

**SUPPLY AND DELIVERY OF SPIRAL HEAT EXCHANGERS**

**1.0 INSTRUCTIONS FOR COMPLETION OF DETAILED SPECIFICATIONS**

- 1.1 The spiral heat exchangers shall be furnished complete and ready for use by the City. All parts not specifically mentioned but which are required to complete and place the spiral heat exchangers into successful operation shall be furnished as though specifically mentioned in these specifications.
- 1.2 It will be the responsibility of the Bidder to inform the City of any errors or omissions in these specifications, for under this Contract the Contractor shall be held responsible for the satisfactory operational function of the spiral heat exchangers.
- 1.3 All items in these specifications must be answered indicating compliance or non-compliance. **Bidders shall state "yes" for compliance or state deviation**, or give a reply where requested to do so. Deviations shall be clearly stated and fully detailed. Deviations will be considered subject to evaluation.
- 1.4 Each bidder is required to fill in every blank. **Failure to do so may be used as a basis for rejection of bid.**

ITEM NO.	DESCRIPTION	DESIGN REQUIRMENTS	BIDDER RESPONSE
<b>1.0</b>	<b>Product Details</b>		
1.1	Manufacturer:	Bidder Specified	
1.2	Model No:	Bidder Specified	
<b>2.0</b>	<b>Performance</b>		
2.1	Thermal Capacity	806 kW	
2.2	Sludge Side		
2.2.1	Fluid	Digester Sludge	
2.2.2	Total Flow	180 M <sup>3</sup> /H	
2.2.3	Inlet Temperature	33 °C	
2.2.4	Outlet Temperature	38 °C	
2.2.5	Pressure Drop Allowance	48 kPa	
2.2.6	Calculated Pressure Drop	BTA	
2.3	Water Side		
2.3.1	Fluid	Water	
2.3.2	Total Flow	125 M <sup>3</sup> /H	
2.3.3	Inlet Temperature	68 °C	
2.3.4	Outlet Temperature	63 °C	
2.3.5	Pressure Drop Allowance	33 kPa	

2.3.6	Calculated Pressure Drop	BTA	
<b>3.0</b>	<b>Construction</b>		
3.1	Dimensional Layout	Bidder to Provide Drawing With Bid	
3.2	Test Pressure	Bidder To Advise	
3.3	Design Pressure	210 kPag	
3.4	Design Temperature		
3.4.1	Sludge Side	38 °C	
3.4.2	Water Side	68 °C	
3.5	Maximum Allowable Working Pressure	Bidder to Advise	
3.6	Spiral Thickness	6mm	
3.7	Spiral Materials	Bidder to Advise	
3.8	Spiral Channel Width		
3.8.1	Sludge Side	25mm	
3.8.2	Water Side	22mm	
3.9	Shell Thickness	Bidder to Advise	
3.10	Shell Materials	Bidder to Advise	
3.11	Drain Connection Size / Rating	Bidder to Advise	
3.12	Sludge Nozzles		
3.12.1	Inlet	150mm (6") 150# R.F.	
3.12.2	Outlet	150mm (6") 150# R.F.	
3.13	Water Nozzles		
3.13.1	Inlet (6")	150mm (6") 150# R.F.	
3.13.2	Outlet (6")	150mm (6") 150# R.F.	
3.14	Cover Gasket Material	Bidder to Advise	
3.15	Weight		
3.15.1	Empty	Bidder to Advise	
3.15.2	Flooded	Bidder to Advise	

\_\_\_\_\_  
 Name of Bidder