

PART A
BID SUBMISSION

FORM A: BID
(See B7)

1. Project Title SUPPLY AND DELIVERY OF VERTICAL AXIAL FLOW PROPELLER PUMPS WITH VARIABLE FREQUENCY DRIVES COMPLETE WITH FABRICATED DRAFT TUBE AND INTERCONNECTING PIPEWORK FOR THE NORTH END WATER POLLUTION CONTROL CENTRE DISINFECTION PROJECT

2. Bidder

Name of Bidder

Street

City Province Postal Code

(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 and D3 unless the context otherwise requires.

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.

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6. Qualification The Bidder has in the past performed the works listed on Form C: Qualification, appended hereto, which were similar in nature, scope and value to the Work for which this offer is made.

7. Subcontractors The Bidder proposes to subcontract key portions of the Work as listed on Form D: Subcontractors, appended hereto, and agrees that no other key portions of the Work will be subcontracted and no substitution of listed Subcontractors will be allowed without the prior approval of the Contract Administrator.

The Subcontractors to whom the Bidder proposes to subcontract key portions of the Work have in the past performed the works listed on Form D: Subcontractors, appended hereto, and for each Subcontractor, the works were similar in nature, scope and value to the portions of the Work which the Bidder proposes to subcontract to them. The Bidder represents that the Subcontractors are fully capable of performing the Work required to be done in accordance with the terms of the Contract.

8. Bid Security In accordance with B17.1, the Bidder encloses bid security in the form of:

(Choose one)

- a bid bond (Form G1: Bid Bond and Agreement to Bond)
- an irrevocable standby letter of credit (Form G2: Irrevocable Standby Letter of Credit and Undertaking)
- a certified cheque or draft

and agrees that it shall be held by the City in accordance with the Contract.

9. 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 GC.3.01.

10. Commencement of the Work The Bidder agrees that no Work shall commence until he is in receipt of a Letter of Intent authorizing the commencement of the Work.

11. 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 Submission.

12. 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 _____

13. Time

This offer shall be open for acceptance, binding and irrevocable for a period of ninety (90) Calendar Days following the Submission Deadline.

14. Signatures

In witness whereof 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)

FORM B: PRICES
 (See B8)

SUPPLY AND DELIVERY OF VERTICAL AXIAL FLOW PROPELLER PUMPS WITH VARIABLE FREQUENCY DRIVES COMPLETE WITH FABRICATED DRAFT TUBE AND INTERCONNECTING PIPEWORK FOR THE NORTH END WATER POLLUTION CONTROL CENTRE DISINFECTION PROJECT

UNIT PRICES						
ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1.	Axial Flow Propeller Pumps	Part E	Each	6		
2.	Fabricated steel draft tube assemblies, interconnecting pipework and couplings	Part E	Set	5		
3.	Variable Frequency Drives	Part E	Each	5		
4.	Spare Parts, Total from Form N	Part E	Set	1		
TOTAL BID PRICE (GST and MRST extra) (in figures)\$ _____ (in words) _____ _____						

 Name of Bidder

FORM D: SUBCONTRACTORS
(See B10)

SUPPLY AND DELIVERY OF VERTICAL AXIAL FLOW PROPELLER PUMPS WITH VARIABLE FREQUENCY DRIVES COMPLETE WITH FABRICATED DRAFT TUBE AND INTERCONNECTING PIPEWORK FOR THE NORTH END WATER POLLUTION CONTROL CENTRE DISINFECTION PROJECT

1. Portion of Work: Supply of Axial Flow Pumps			
Subcontractor: _____ (Name)			
_____ (Address)			
Qualifications:			
<u>Year</u>	<u>Description of Past Project</u>	<u>For Whom Work Was Performed</u>	<u>Value</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
2. Portion of Work: Submersible Pump Motor/Drives			
Subcontractor: _____ (Name)			
_____ (Address)			
Qualifications:			
<u>Year</u>	<u>Description of Past Project</u>	<u>For Whom Work Was Performed</u>	<u>Value</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
3. Portion of Work: Variable Frequency Drives			
Subcontractor: _____ (Name)			
_____ (Address)			
Qualifications:			
<u>Year</u>	<u>Description of Past Project</u>	<u>For Whom Work Was Performed</u>	<u>Value</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

FORM D: SUBCONTRACTORS
(See B10)

**SUPPLY AND DELIVERY OF VERTICAL AXIAL FLOW PROPELLER PUMPS WITH VARIABLE
FREQUENCY DRIVES COMPLETE WITH FABRICATED DRAFT TUBE AND INTERCONNECTING
PIPEWORK FOR THE NORTH END WATER POLLUTION CONTROL CENTRE DISINFECTION PROJECT**

4. Portion of Work: Fabricated Draft Tubes and Pipework			
Subcontractor: _____ (Name)			

(Address)			
Qualifications:			
<u>Year</u>	<u>Description of Past Project</u>	<u>For Whom Work Was Performed</u>	<u>Value</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
5. Portion of Work: Pipe Couplings			
Subcontractor: _____ (Name)			

(Address)			
Qualifications:			
<u>Year</u>	<u>Description of Past Project</u>	<u>For Whom Work Was Performed</u>	<u>Value</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
6. Portion of Work:			
Subcontractor: _____ (Name)			

(Address)			
Qualifications:			
<u>Year</u>	<u>Description of Past Project</u>	<u>For Whom Work Was Performed</u>	<u>Value</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Name of Bidder

FORM G1: BID BOND AND AGREEMENT TO BOND

(Page 1 of 2)
(See B17)

BID BOND

KNOW ALL MEN BY THESE PRESENTS THAT

(hereinafter called the "Principal") and

(hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee") in the sum of ten percent (10%) of the Total Bid Price set out in the Bid Submission hereinafter described, for the payment of which sum the Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has submitted a Bid to the Obligee dated the

_____ day of _____, 20_____ for

BID OPPORTUNITY NO. 89-2005

SUPPLY AND DELIVERY OF VERTICAL AXIAL FLOW PROPELLER PUMPS WITH VARIABLE FREQUENCY DRIVES COMPLETE WITH FABRICATED DRAFT TUBE AND INTERCONNECTING PIPEWORK FOR THE NORTH END WATER POLLUTION CONTROL CENTRE DISINFECTION PROJECT

as more fully set out in the Bid Opportunity.

NOW THEREFORE the condition of this obligation is such that if the Bid of the Principal is not accepted, or if said Bid is accepted and the Principal, in accordance with the terms of the Bid, enters into a Contract with the said Obligee and furnishes the required performance security for guaranteeing the faithful performance of the Contract, this obligation shall be void, but otherwise shall remain in full force and effect.

IN WITNESS WHEREOF the Principal and Surety have signed and sealed this bond the

_____ day of _____, 20_____ .

SIGNED AND SEALED
in the presence of:

(Witness)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

By: _____ (Seal)
(Attorney-in-Fact)

FORM G1: BID BOND AND AGREEMENT TO BOND

(Page 2 of 2)
(See B17)

AGREEMENT TO BOND

(to be attached to and to form part of Bid Bond)

The Surety on the attached Bid Bond hereby undertakes and agrees with **THE CITY OF WINNIPEG** to become bound as Surety for the Principal,

_____ of
(Name of Bidder)

(Place)

the Bidder to you on _____, 20____ for

BID OPPORTUNITY NO. 89-2005

SUPPLY AND DELIVERY OF VERTICAL AXIAL FLOW PROPELLER PUMPS WITH VARIABLE FREQUENCY DRIVES COMPLETE WITH FABRICATED DRAFT TUBE AND INTERCONNECTING PIPEWORK FOR THE NORTH END WATER POLLUTION CONTROL CENTRE DISINFECTION PROJECT

in an amount equal to fifty percent (50%) of the Contract Price for the due and proper performance of the Work shown and described in the Bid Opportunity, if our Principal's Bid is accepted by you, such Performance Bond to be maintained and continue in full force and effect until the expiration of the warranty period. The Performance Bond shall be in the form specified in the Bid Opportunity.

It is a condition that this Agreement to Bond shall become null and void if the Performance Bond mentioned above is not required from our Principal within ninety (90) Calendar Days following the Submission Deadline.

AND IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable as Principal, and that nothing of any kind or matter whatsoever that will not discharge the Principal shall operate as a discharge or release of liability of the Surety, any law or usage relating to the liability of Sureties to the contrary notwithstanding.

SIGNED AND SEALED this _____ day of _____, 20_____ .

(Name of Surety)

By: _____ (Seal)
(Attorney-in-Fact)

**FORM G2: IRREVOCABLE STANDBY LETTER OF CREDIT AND UNDERTAKING
(BID SECURITY) (Page 1 of 2)
(See B17)**

(Date)

The City of Winnipeg
Corporate Finance Department
Materials Management Division
185 King Street, Main Floor
Winnipeg MB R3B 1J1

RE: BID SECURITY - BID OPPORTUNITY NO. 89-2005

SUPPLY AND DELIVERY OF VERTICAL AXIAL FLOW PROPELLER PUMPS WITH VARIABLE FREQUENCY DRIVES COMPLETE WITH FABRICATED DRAFT TUBE AND INTERCONNECTING PIPEWORK FOR THE NORTH END WATER POLLUTION CONTROL CENTRE DISINFECTION PROJECT

Pursuant to the request of and for the account of our customer,

(Name of Bidder)

(Address of Bidder)

WE HEREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding in the aggregate

_____ Canadian dollars.

This Standby Letter of Credit may be drawn on by you at any time and from time to time upon written demand for payment made upon us by you. It is understood that we are obligated under this Standby Letter of Credit for the payment of monies only and we hereby agree that we shall honour your demand for payment without inquiring whether you have a right as between yourself and our customer to make such demand and without recognizing any claim of our customer or objection by the customer to payment by us.

The amount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upon it by you or by formal notice in writing given to us by you if you desire such reduction or are willing that it be made.

Partial drawings are permitted.

We engage with you that all demands for payment made within the terms and currency of this Standby Letter of Credit will be duly honoured if presented to us at:

(Address)

and we confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us.

**FORM G2: IRREVOCABLE STANDBY LETTER OF CREDIT AND UNDERTAKING
(BID SECURITY) (Page 2 of 2)
(See B17)**

All demands for payment shall specifically state that they are drawn under this Standby Letter of Credit.

This Standby Letter of Credit will expire on July 18, 2005.

If our customer's Bid is not accepted, and if accepted, when our customer has entered into a Contract with you and has furnished the required performance security for guaranteeing the faithful performance of the Contract.

This Standby Letter of Credit may not be revoked or amended without your prior written approval.

WE HEREBY UNDERTAKE and agree to provide in your favour an irrevocable Standby Letter of Credit in an amount equal to fifty percent (50%) of the Contract Price for the due and proper performance of the Work shown and described in the Bid Opportunity, if our customer's Bid is accepted by you. Such Standby Letter of Credit shall be maintained and continue in full force and effect until the expiration of the warranty period. The Standby Letter of Credit shall be in the form specified in the Bid Opportunity.

This credit is subject to the Uniform Customs and Practice for Documentary Credit (1993 Revision), International Chamber of Commerce Publication Number 500.

(Name of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)

FORM O: LIFE CYCLE COST EVALUATION

Page 1 of 4
 (See B12)

Item	Description	Amount
1.0	<u>CAPITAL COST OF EQUIPMENT</u>	
1.1	Capital Cost of the Supply of Vertical Axial Flow Propeller Pumps and Variable Frequency Drives to meet all requirements of this Contract (Total Bid Price from Form B: Prices).	\$
2.0	<u>ANNUAL ELECTRIC POWER CONSUMPTION</u> Power requirements of all pumping equipment supplied under this contract shall be included in the electric power consumption calculation.	
2.1	Annual Electricity Cost The Annual Power Consumption Cost is to be calculated using the details provided in Table 0-1. Annual Power Usage Cost For Design Flow Pattern Maximum Electricity Demand shall be calculated using the peak daily flow. The details are provided in Table 0-2 Annual Maximum Demand Cost For Design Flow Pattern Note that for the purpose of these calculations power factor shall be taken as 0.95.	
2.2	Annual Power Usage Cost from Table O-1 (Table O-1 included at the end of this Form O is to be completed by the Bidder and submitted with the Bid Submission)	\$/year
2.3	Annual Maximum Demand Cost from Table O-2 (Table O-2 included at the end of this Form O is to be completed by the Bidder and submitted with the Bid Submission)	\$/year
2.4	Total Annual Electrical Power Costs (2.2+2.3)	\$/year

FORM O: LIFE CYCLE COST EVALUATION

Page 2 of 4
 (See B12)

<p>THE BIDDER IS NOT REQUIRED TO COMPLETE ITEMS 3.1 THROUGH 3.4 BELOW. THESE ITEMS WILL BE CALCULATED BY THE CONTRACT ADMINISTRATOR USING THE INFORMATION PROVIDED BY THE BIDDER IN THE PREVIOUS ITEMS OF THIS FORM O.</p>		
3.0	<p><u>PRESENT VALUE OF INITIAL AND ANNUAL COSTS</u></p> <p>The present value of initial and annual power costs is calculated, based on the 15-year design life and a 4.25 percent discount rate.</p>	
3.1	Capital Cost of the Inline Axial Flow Pumps, VFDs and associated equipment. (Item 1.1 above)	\$
3.2	Total Annual Cost: Item 2.4 above.	\$/year
3.3	Present Value of Total Annual Costs (10.93 x item 3.2)	\$
3.4	Calculated Present Value: Summation of Total Capital Cost (Item 3.1) plus Present Value of Total Annual Costs (Item 3.3) for 15 years	\$

FORM O: LIFE CYCLE COST EVALUATION

Page 3 of 4
 (See B12)

TABLE O-1: ANNUAL POWER USAGE COST FOR DESIGN FLOW PATTERN

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Month	Flow ML/d Average Day	No of Pumps Running	ML/d per pump @ 6m Head	Absorbed Power Per Pump KW	Total Absorbed Power (b) x (d) KW	Energy Charge \$/kWh	Hours	Monthly Power Usage Cost (e) x (f) x (g) \$ CAN
January	165	3	55			0.01975	744	
February	188	3	62.7			0.01975	672	
March	215	3	71.7			0.01975	744	
April	248	4	62			0.01975	720	
May	274	4	68.5			0.01975	744	
June	278	4	69.5			0.01975	720	
July	264	4	66			0.01975	744	
August	228	3	76			0.01975	744	
September	209	3	69.7			0.01975	744	
October	195	3	65			0.01975	744	
November	203	3	67.7			0.01975	720	
December	170	3	56.7			0.01975	744	
Annual Power Usage Cost								

TABLE O-2: ANNUAL MAXIMUM DEMAND COST FOR DESIGN FLOW PATTERN

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
Month	Flow ML/d Peak Day	No of Pumps Running	ML/d per pump@ 6m Head	Absorbed Power Per Pump KW	Total Absorbed Power (b) x (d) KW	Demand Charge \$/kVA	Hours	Monthly Power Usage Cost (e) x (f) x (g) \$ CAN
January	272	4	68			6.363	744	
February	310	4	77.5			6.363	672	
March	355	5	71			6.363	744	
April	380	5	76			6.363	720	
May	380	5	76			6.363	744	
June	380	5	76			6.363	720	
July	380	5	76			6.363	744	
August	376	5	75.2			6.363	744	
September	345	5	69			6.363	744	
October	322	4	80.5			6.363	744	
November	335	5	67			6.363	720	
December	281	4	70.3			6.363	744	
Annual Maximum Demand Cost								

FORM O: LIFE CYCLE COST EVALUATION

Page 4 of 4
(See B12)

TABLE O-3: PUMP EFFICIENCY & ABSORBED POWER

Flow ML/d	Head (m)	Overall Efficiency	Absorbed Power Usage (kW)*
42	6		
53	6		
64	6		
75	6		
86	6		

The information supplied within this table will be verified during the Factory Performance Tests and will be the base information used to determine compliance with the Performance Guarantee.

* Absorbed Power is the power drawn by the motor at the specified duty point and shall be derived when the power factor is corrected to 0.95.

**FORM P: SUPERVISION OF INSTALLATION, COMMISSIONING, OPERATOR TRAINING AND
MAINTENANCE INSTRUCTIONS**

(See B13)

(a)	The rate per day for additional days of supervision of installation and commissioning is:	\$
(b)	The rate per day for additional days of operator training and maintenance instructions is:	\$