# FORM A: REQUEST FOR QUALIFICATION APPLICATION

1.	Document Title	RFQ NO. 668-2016 - SYSTEMS INTEGRATOR FOR THE WINNIPEG SEWAGE TREATMENT PROGRAM		
2.	Proponent			
		Name of Proponent		
		Usual Business Name of Proponent as it appears on Invoice (if different from above)		
		Street		
		City Province Postal C	Code	
		Email Address of Proponent		
		Facsimile Number		
	(Mailing address if different)	Street or P.O. Box		
		City Province Postal C	Code	
		GST Registration Number (if applicable)		
	(Choose one)	The Proponent is:		
		a sole proprietor		
		a partnership		
		a corporation		
		carrying on business under the above name.		
3.	Contact Person	The Proponent hereby authorizes the following contact person represent the Proponent for purposes of the Qualification Submission		
		Contact Person Title		
		Telephone Number Facsimile Number		
4.	Good Faith Declaration	The Proponent declares that, in submitting its Request for Qualificati (RFQ), it does so in good faith and that to the best of its knowledge Persons identified in B15 would have any pecuniary interest, direct indirect, should the Proponent be awarded a contract for the Project.	e no	

5.	Response	The Proponent agrees that the RFQ in its entirety shall be deemed to be incorporated in and to form a part of this Qualification Submission notwithstanding that not all parts thereof are necessarily attached to or accompany this Qualification Submission.			
6.	Addenda			ddenda have been received n a part of the Submission:	
		No	Dated		
7.	Signatures	signed this	·	zed official or officials have	
		Signature of P		, 20	
				al whose signature appears above)	

### **FORM B: TEAM MEMBERS**

Proponent:
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- 1. The City reserves the right to clarify, investigate, and request additional information to confirm the Proponent's claim regarding any data provided.
- 2. This form is made available to Proponents in both PDF and Microsoft Word format. In the event of a discrepancy between the forms, the PDF version takes precedence.
- 3. Complete "Proponent Response" section in full. Failure to complete or submit required information may result in disqualification of the complete Qualification.
- 4. If insufficient space is provided, attach additional sheets with required information.

Item	Description	Proponent Response				
1.0	List your Team Member's firms:	Proponent: Subcontractor #1: Subcontractor #2:				
2.0	What percentage of the overall work					
	category will be	Propone	ent Subcontractor #1	Subcontractor #2		
	completed by the above listed Team	Project Management				
	Member's? Ensure each row	Systems Architecture Development				
	adds up to 100%.	PLC Programming				
		HMI Programming				
		Site Commissioning				
		Networking				

# FORM C (R1): EXPERIENCE OF TEAM

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- 1. The City reserves the right to clarify, investigate, and request additional information to confirm the Proponent's claim regarding any data provided.
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- 3. Complete "Proponent Response" section in full. Failure to complete or submit required information may result in disqualification of the complete Qualification.
- 4. If insufficient space is provided, attach additional sheets with required information.

Item	Description	Proponent Response		
1.0	Engineering Registration Details	Does your firm have a Certificate of Authorization for engineering?  Yes (Proponent) Yes (Subcontractor)  No (Proponent) Explanation: No (Subcontractor)  Explanation: Which province(s) is your firm registered with?		
2.0	CSA Certification Details	Is one of your Team Members CSA Certified to produce CSA Approved Industrial Control Panels?  Yes No  Details:		
3.0	Firm's Knowledge Areas	Does one or more of your Team Members have automation experience in a wastewater and/or water treatment process?  Yes (Proponent)		
4.0	Reference Project 1 – All data below shall be for the portion	on of work implemented by the Systems Integrator on the project.		
4.1	Project Description:	Project Name:  Client:  Systems Integrator contract value:  Brief Description:		

4.2	Number of PLCs installed or modified >50%:	# of Redundant PLC Pairs:    0
4.3	Total I/O	# of Discrete Inputs:    <250
4.4	Project Migration Components – Identify how many I/O were migrated from a DCS to a PLC, or from a PLC to a PLC, or from a DCS to a DCS for one project.	For one project that was migrated from a (select only one):    DCS to PLC
4.5	Networked Field Devices (instruments, valve actuators, and motor controllers) (i.e. Foundation Fieldbus, PROFIBUS, Modbus TCP, etc.)	# of Networked Field Devices:    <50   51-100   101-200   201-400   401-600   >600

4.6	Specific PLC utilized (check all that apply)	□ Schneider Electric   □ Quantum   □ M580   □ M340   □ Premium   □ 984   □ Other   □ Rockwell Automation   □ Siemens   □ Other
4.7	Specific HMI utilized (check all that apply)	Schneider Electric   Vijeo Citect   WonderWare   ClearSCADA   Vijeo Designer   Other   Rockwell Automation   Siemens   Other
4.8	Process Simulation	Percentage of inputs that were automatically simulated in software based upon the control system outputs for testing and training purposes:  ☐ 0% ☐ 1-20% ☐ 21-40% ☐ 41-60% ☐ 61-80% ☐ >80%
4.9	Dates	Award Date:  Scheduled Completion Date:  Project Completed?  Yes  Actual Completion Date:  No  Forecasted Completion Date:  Explanation:
4.10	Relation to Form D	Did any of your Key Personnel (proposed in Form D) work on this project?    Yes

4.11	Reference Information - References should have worked directly on the projects described, such as the Project Manager or Contract Administrator.	Contact Name: Organization Name: Position / Title: E-mail address: Telephone Number:
4.12	Number of Servers installed:	# of HMI Servers:  □ 0 □ 1 □ 2 □ ≥3  # of Terminal Servers: □ 0 □ 1 □ 2 □ ≥3
5.0	Reference Project 2 – All data below shall be for the por	rtion of work implemented by the Systems Integrator on the project.
5.1	Project Description:	Project Name:  Client:  Systems Integrator contract value:  Brief Description:
5.2	Number of PLCs installed or modified >50%:	# of Redundant PLC Pairs:    0
5.3	Total I/O	# of Discrete Inputs:    <250

5.4	Project Migration Components – Identify how many I/O were migrated from a DCS to a PLC, or from a PLC to a PLC, or from a DCS to a DCS for one project.	□ PLC to PLC   □ PLC to DCS   □ DCS to DCS   For this project, the number of points migrated were: # of Discrete Inputs: □ <200 □ 200-399 □ 400-799 □ 800-1500 □ >1500 # of Discrete Outputs: □ <30 □ 30-74 □ 75-149 □ 150-300 □ >300 # of Analog Inputs:			
		☐ <30 ☐ 30-74 ☐ 75-149 ☐ 150-300 ☐ >300			
		# of Analog Outputs: ☐ <15 ☐ 15-29 ☐ 30-49 ☐ 50-99 ☐ >100			
5.5	Networked Field Devices (instruments, valve actuators, and motor controllers) (i.e. Foundation Fieldbus, PROFIBUS, Modbus TCP, etc.)	# of Networked Field Devices:    <50			
5.6	Specific PLC utilized (check all that apply)	□ Schneider Electric         □ Quantum         □ M580         □ M340         □ Premium         □ 984         □ Other         □ Rockwell Automation         □ Siemens         □ Other			
5.7	Specific HMI utilized (check all that apply)	Schneider Electric   Vijeo Citect   WonderWare   ClearSCADA   Vijeo Designer   Other    Rockwell Automation  Siemens  Other			
5.8	Process Simulation	Percentage of inputs that were automatically simulated in software based upon the control system outputs for testing and training purposes:			

5.9	Dates	Award Date:
		Scheduled Completion Date:  Project Completed?  Yes  Actual Completion Date:
		☐ No Forecasted Completion Date: Explanation:
5.10	Relation to Form D	Did any of your Key Personnel (proposed in Form D) work on this project?  Yes No  Who Role on This Project
		Project Manager Principal Programmer Lead Software Configuration Architect Principal HMI Developer Site Commissioning Lead Principal Networking Developer and Security Architect Professional Engineer Other:
5.11	Reference Information - References should have worked directly on the projects described, such as the Project Manager or Contract Administrator.	Contact Name: Organization Name: Position / Title: E-mail address: Telephone Number:
5.12	Number of Servers installed:	# of HMI Servers:  □ 0 □ 1 □ 2 □ ≥3  # of Terminal Servers: □ 0 □ 1 □ 2 □ ≥3

### FORM D: EXPERIENCE OF TEAM'S KEY PERSONNEL ASSIGNED TO THE PROJECT

Proponent:		

- The City reserves the right to clarify, investigate, and request additional information to confirm the 1. Proponent's claim regarding any data provided.
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- 3. Complete "Proponent Response" section in full. Failure to complete or submit required information may result in disqualification of the complete Qualification Application.

4.	i. If insufficient space is provided, attach additional sneets with required information.				
Item	Description	Proponent Response			
1	Project Manager	Who will be your Project Manager: What is their professional designations (select all that apply):  □ P.Eng. □ CET □ PMP or equivalent □ Other: How many years of experience do they have as a Project Manager, with ≥50% of their time performing Project Manager tasks?			
	Project Manager	REFERENCE PROJECT Project name: Client: Systems Integrator contract value: Brief description: Were they the lead Project Manager:			
2	Software Configuration Architect	Who will be your Software Configuration Architect: What is their educational background/professional designation (select all that apply):  □ P.Eng.in Computer Engineering □ P.Eng.in Electrical Engineering □ CET □ BSc. in Computer Science □ CAP (ISA) □ Other: How many years of experience do they have as a Software Configuration Architect, with ≥50% of their time performing Software Configuration Architect tasks? □ <1 □ 1-2 □ 3-5 □ 6-9 □ ≥10			

Number of PLCs:	Software Configuration Architect	REFERENCE PROJECT  Project name:  Client:  Systems Integrator contract value:  Brief description:  Were they the Software Configuration Architect on this project:  Yes No
Number of networked instruments:		
0		Number of networked instruments:
Number of standardized code templates (i.e. custom function blocks):		
Organization name: Contact name: Position / Title: E-mail address: Telephone number:  Who will be your Principal Programmer (Lead): Are they capable of the following programming languages: • Function Block Diagram		Number of standardized code templates (i.e. custom function blocks):
Contact name: Position / Title: E-mail address: Telephone number:    Principal Programmer (Lead):   Are they capable of the following programming languages:   Function Block Diagram   Yes   No     Instruction List   Yes   No     Ladder Logic   Yes   No     Sequential Function Chart   Yes   No     Structured Text   Yes   No     Structured Text   Yes   No     What is their educational background/professional designation (select all that apply):   P.Eng.in Computer Engineering   P.Eng.in Electrical Engineering   CET   BSc. in Computer Science   CAP (ISA)   Other:     How many years of experience do they have as a Principal Programmer (Lead), with ≥50% of their time performing Principal Programmer (Lead) tasks?		Reference Information:
Position / Title: E-mail address: Telephone number:  3 Principal Programmer (Lead)  Who will be your Principal Programmer (Lead): Are they capable of the following programming languages:  • Function Block Diagram		Organization name:
E-mail address:  Telephone number:    Semail address:   Telephone number:   Telephone		Contact name:
Telephone number:		Position / Title:
3 Principal Programmer (Lead):  Are they capable of the following programming languages:  • Function Block Diagram		E-mail address:
Are they capable of the following programming languages:  • Function Block Diagram		Telephone number:
		Are they capable of the following programming languages:  • Function Block Diagram

	Principal Programmer (Lead)	REFERENCE PROJECT Project name: Client: Systems Integrator contour Brief description: Were they the Principal Number of other programula 0 1	tract value:  Programmer (Lea		☐ Yes ☐ No	
		Number of I/O: ☐ <200	201-500	☐ 501-1000	□ 1001-2000	□ ≥2000
		Number of control loops ☐ 0 Reference Information:	s: 1-10	☐ 11-25	□ 26-50	□ ≥50
		Organization name:  Contact name:				
		Position / Title:				
		E-mail address:				
		Telephone number:				
4	Principal HMI Developer	_	al background/prof iputer Engineering trical Engineering outer Science	essional designat		
		☐ <1	☐ 1-2	□ 3-5	□ 6-9	<u></u> ≥10
	Principal HMI Developer	REFERENCE PROJECT Project name: Client: Systems Integrator contour Brief description: Were they the Principal Number of graphic scre 1-5 Number of HMI servers 0 Reference Information:	tract value: HMI Developer or ens (not including 6-25	• •	∕es	□ ≥300
		Organization name: Contact name: Position / Title: E-mail address:	_			
		Telephone number:				

5	Site Commissioning Lead	Who will be your Site Commissioning Lead:  What is their educational background/professional designation (select all that apply):  □ P.Eng.in Computer Engineering □ P.Eng.in Electrical Engineering □ CET □ BSc. in Computer Science □ CAP (ISA) □ Other:  How many years of experience do they have as a Site Commissioning Lead, with ≥50% of their time performing Site Commissioning Lead tasks? □ <1 □ 1-2 □ 3-5 □ 6-9 □ ≥10
	Site Commissioning Lead	REFERENCE PROJECT Project name: Client: Systems Integrator contract value: Brief description: Were they the Site Commissioning Lead on this project: ☐ Yes ☐ No Number of technicians working under their supervision: ☐ 0 ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ ≥5 Number of total instruments (hardwired or networked): ☐ 1-5 ☐ 6-25 ☐ 26-100 ☐ 101-300 ☐ >300 Number of control devices: ☐ 0 ☐ 1-20 ☐ 21-50 ☐ 51-75 ☐ 76-100 ☐ >100 Reference Information: Organization name: Contact name: Position / Title: E-mail address: Telephone number:
6	Principal Networking Developer and Security Architect	Who will be your Principal Networking Developer and Security Architect:  What is their educational background/professional designation (select all that apply):  □ P.Eng.in Computer Engineering □ P.Eng.in Electrical Engineering □ CET □ BSc. in Computer Science □ CAP (ISA) □ Other:  How many years of experience do they have as a Principal Networking Developer and Security Architect, with ≥50% of their time performing Principal Networking Developer and Security Architect tasks? □ <1 □ 1-2 □ 3-5 □ 6-9 □ ≥10

	Principal Networking Developer and Security Architect	Project name: Client: Systems Integrator contract value: Brief description: Were they the Principal Networking Developer and Security Architect on this project:  Yes No		
		Number of routers:		
		Number of firewalls:       □ 0 □ 1 □ 2 □ ≥3         Number of computer servers:       □ 0 □ 1 □ 2 □ 3 □ 4 □ ≥5         Reference Information:       Organization name:         Contact name:       □ □         Position / Title:       □ □         E-mail address:       □ □         Telephone number:       □ □		
7	Professional Engineer	Who will be your Professional Engineer responsible for sealing the Systems Integration Work:  ——— What is their educational background/professional designation (select all that apply):  ———————————————————————————————————		

Professional	REFERENCE PRO	<u>JECT</u>			
Engineer	Project name:				
	Client:				
	Systems Integrator	contract value:	_		
	Brief description:				
	Were they the Profe	ssional Engineer on	this project: Ye	s 🗌 No	
	Number of I/O:				
	☐ <200	201-500	☐ 501-1000	1001-2000	☐ >2000
	Number of networke	ed field devices (instr	uments, valves an	d motor control):	
	☐ <50	☐ 51-100	□ 101-400	☐ 401-600	□ >600
	What was sealed:		_		
	Loop/wiring d	-	= -	s □ No	
	PLC software		_	s ∐ No	
	-	m architecture diagra	ams: ∐ Yes	S ∐ No	
	Other:				
	Reference Information				
	Organization na	me:			
	Contact name:				
	Position / Title:				
	E-mail address:				
	Telephone numb	oer:			

# FORM E (R1): KEY METRICS

Proponent:		

- 1. The City reserves the right to clarify, investigate, and request additional information to confirm the Proponent's claim regarding any data provided.
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- 4. If insufficient space is provided, attach additional sheets with required information.

Item	Description	Proponent Response
1	Proponent's office locations (cities) within North America:	
2	Current number of Systems Integrator employees within the Team, whose full time job is systems integration, available at any given time for Work:	☐ <10 ☐ 11-15 ☐ 16-25 ☐ 26-50 ☐ ≥50
3	Number of personnel currently allocated simultaneously for 24 hour support:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10
4	Current estimated response time (hours) to send a service technician to a City sewage treatment facility on an emergency basis:	☐ ≤1 ☐ 2-5 ☐ 6-9 ☐ 10-15 ☐ 16-23 ☐ ≥24
5	Number of employees whose position is at minimum 40% related to PLC programming and commissioning:	□ 1 □ 2-4 □ 5-9 □ 10-14 □ 15-19 □ ≥20
6	Number of employees whose position is at minimum 40% related to HMI programming and commissioning:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10
7	Number of Professional Engineers with expertise in automation, registered by EGM or comparable registering body in another Canadian province, with expertise in the field of automation:	
8	Number of engineers-in-training, registered by EGM or comparable registering body in another Canadian province:	□ 0 □ 1-2 □ 3-4 □ ≥5
9	Number of employees with CAP (ISA) designation:	□ 0 □ 1-2 □ 3-4 □ ≥5
10	Number of employees who have a Microsoft MCSE certification:	□ 0 □ 1-2 □ 3-4 □ ≥5

11	Number of employees who are certified as a Schneider PlantStruxure Certified Engineer:	□ 0 □ 1-2 □ 3-4 □ ≥5
12	Number of employees with Schneider Unity Pro Level 2 formal training:	□ 1 □ 2-4 □ 5-9 □ 10-14 □ 15-19 □ ≥20
13	Number of employees with Schneider Unity Pro experience on a project of over 1000 I/O:	□ 1 □ 2-4 □ 5-9 □ 10-14 □ 15-19 □ ≥20
14	Number of employees with Schneider Vijeo Citect formal training:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10
15	Number of employees with Schneider Vijeo Citect experience on a project of over 1000 I/O:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10
16	Number of employees with a minimum of one hundred (100) hours of Schneider Intelligent MCC integration experience:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10
17	Number of completed projects with >10 networked field instruments (PROFIBUS or Foundation Field Bus):	□ 0-5 □ 6-11 □ 12-17 □ 18-23 □ 24-29 □ ≥30
18	Number of completed projects with >10 networked motor starters/VFDs (Ethernet, PROFIBUS, or Modbus):	□ 0-5 □ 6-11 □ 12-17 □ 18-23 □ 24-29 □ ≥30
19	Number of completed projects that integrated monitoring and control of medium voltage (i.e. 12,470 VAC) switchgear:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10
20	Number of completed projects that integrated monitoring and control of HVAC with PLC-based controls:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10
21	Number of completed projects that worked with ABB Bailey / NETWORK 90 systems:	□ 0 □ 1-2 □ 3-4 □ ≥5
22	Number of completed projects that migrated from DCS to PLC in last 10 years:	□ 0 □ 1-2 □ 3-4 □ ≥5
23	For the largest applicable completed project performed, the number HMI servers:	□0 □1 □2 □3 □4 □≥5
24	For the largest applicable completed project performed, the number HMI clients:	□ 0 □ 1-4 □ 5-9 □ 10-14 □ 15-19 □ ≥20
25	Number of completed projects where Terminal Servers were installed:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10

26	Number of completed projects where data generated by HMI systems was populated into Enterprise and Business level reporting systems:	□ 0 □ 1-2 □ 3-4 □ ≥5
27	Number of completed projects where process historians were installed:	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10
28	Number of completed projects where software simulators were developed for off-line testing:	□ 0 □ 1-2 □ 3-4 □ ≥5
29	Number of completed projects consisting of a distributed network of PLCs (>10):	□ 0-1 □ 2-3 □ 4-5 □ 6-7 □ 8-9 □ ≥10