

FORM A: BID
(See B10)

1. Contract Title SOUTH END SEWAGE TREATMENT PLANT (SEWPCC) UPGRADING / EXPANSION PROJECT - CONTRACT 4 – SITEWIDE MECHANICAL, ELECTRICAL, CONCRETE AND SITE WORKS

2. Bidder

Name of Bidder

Usual Business Name of Bidder as it appears on Invoice (if different from above)

Street

City

Province

Postal Code

Email Address of Bidder

Facsimile Number

(Mailing address if different)

Street or P.O. Box

City

Province

Postal Code

GST Registration Number (if applicable)

(Choose one)

The Bidder is:

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.

5. Offer The Bidder hereby offers to perform the Work in accordance with the Contract for the Total Bid Price, in Canadian funds, set out on Form B: Prices, appended hereto.

6. Bid Security In accordance with B14.1, 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.

7. 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 C4.

8. Commencement of the Work The Bidder agrees that no Work shall commence until he/she is in receipt of a letter of intent from the Award Authority authorizing the commencement of the Work.

9. 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.

10. 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 _____

11. Time This offer shall be open for acceptance, binding and irrevocable for a period of one hundred and twenty (120) Calendar Days following the Submission Deadline.

12. 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)

FORM B (R1): PRICES
 (See B11)

**SOUTH END SEWAGE TREATMENT PLANT (SEWPCC) UPGRADING / EXPANSION PROJECT -
 CONTRACT 4 – SITEWIDE MECHANICAL, ELECTRICAL, CONCRETE AND SITE WORKS**

UNIT PRICES

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
1.0	<u>FACILITY AREA A - GENERAL</u>					
1.1	Raise Roof of Existing Outfall Chambers #1, #2, #3, #4, #5, #6	E12	L.S.	1		
1.2	Raise Outfall Manhole Rims	E13	Each	4		
1.3	Supply and Install Effluent Monitoring Station Upgrades	E14	L.S.	1		
	FACILITY AREA A - GENERAL				Subtotal	
2.0	<u>FACILITY AREA B – SERVICE BUILDING</u>					
2.1	Demolition of existing 85kW generator and ancillary equipment	Division 26	L.S.	1		
2.2	Upgrades to existing 1000kW generator, transfer switch and controls	Division 26	L.S.	1		
2.3	DCS Migration for Facility Area B	Division 40	L.S.	1		
2.4	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
2.5	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
	FACILITY AREA B – SERVICE BUILDING				Subtotal	
3.0	<u>FACILITY AREA C – CHEMICAL / ELECTRICAL BUILDING</u>					
3.1	Supply and Install concrete structure and Roofing System	Divisions 3 to 21	L.S.	1		
3.2	Supply and Install 300mm dia. pre-cast concrete piles	31 09 17, 31 62 13.23	Each	20		
3.3	Supply and Install 400mm dia. pre-cast concrete piles	31 09 17, 31 62 13.23	Each	81		
3.4	Dynamic Pile Testing (PDA)	31 09 17	Each	5		
3.5	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
3.6	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
3.7	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
3.8	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
3.9	Supply and Install Genset Equipment	Division 26	L.S.	1		

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
3.10	Supply and Install Building Finishes	Divisions 9 to 12	L.S.	1		
3.11	Chemical Line Duct Bank Excavation	E16	L.S.	1		
3.12	Chemical Line Duct Bank Shoring	E15	L.S.	1		
3.13	Supply and Install Systems Integration Work	E9	L.S.	1		
3.14	Supply Commissioning services	01 91 14	L.S.	1		
3.15	Supply training services	01 79 00	L.S.	1		
3.16	Supply operations and maintenance manuals	01 78 23	L.S.	1		
FACILITY AREA C – CHEMICAL / ELECTRICAL BUILDING					Subtotal	
4.0	<u>FACILITY AREA D – FERMENTERS / SLUDGE THICKENERS</u>					
4.1	Supply and Install concrete	Division 3	L.S.	1		
4.2	Building modifications and demolition	Division 2	L.S.	1		
4.3	Electrical and Instrumentation demolition and modifications to existing systems	Division 26	L.S.	1		
4.4	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
4.5	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
4.6	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
4.7	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
4.8	Asbestos Abatement	Division 2	L.S.	1		
4.9	Supply and Install Systems Integration Work	E9	L.S.	1		
4.10	Supply Commissioning services	01 91 14	L.S.	1		
4.11	Supply training services	01 79 00	L.S.	1		
4.12	Supply operations and maintenance manuals	01 78 23	L.S.	1		
4.13	Supply and install 50mm deep Horizontal Concrete Repair for Existing HPO Tanks	03 01 33	m ²	450		
4.14	Supply and install 50mm deep Vertical Concrete Repair for Existing HPO Tanks	03 01 32	m ²	1250		
4.15	Supply and install 50mm deep Overhead Concrete Repair for Existing HPO Tanks	03 01 32	m ²	400		
4.16	Supply and install 50mm deep Horizontal Concrete Repair for Existing HPO Tanks	09 98 00	m ²	1050		

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
4.17	Supply and install 50mm deep Vertical Concrete Repair for Existing HPO Tanks	09 98 00	m ²	3400		
4.18	Supply and install 50mm deep Overhead Concrete Repair for Existing HPO Tanks	09 98 00	m ²	1050		
FACILITY AREA D – FERMENTERS / SLUDGE THICKENERS					Subtotal	
5.0	<u>FACILITY AREA G - HEADWORKS</u>					
5.1	Supply and Install 300mm dia. pre-cast concrete piles	31 09 17, 31 62 13.23	Each	26		
5.2	Supply and Install 400mm dia. pre-cast concrete piles	31 09 17, 31 62 13.23	Each	61		
5.3	Dynamic Pile Testing (PDA)	31 09 17	Each	5		
5.4	Supply and Install concrete structure and misc. concrete	Divisions 3 to 21	L.S.	1		
5.5	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
5.6	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
5.7	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
5.8	Supply and Install VFDs for new raw sewage pump	26 29 23	Each	2		
5.9	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
5.10	Supply and Install temporary electrical and controls for new screen installation	Division 26	L.S.	1		
5.11	Grit and Screenings Building Excavation	E17	L.S.	1		
5.12	Grit and Screenings Building Shoring	E15	L.S.	1		
5.13	Supply and Install Building Finishes	Divisions 9 to 12	L.S.	1		
5.14	Asbestos Abatement	Division 2	L.S.	1		
5.15	Electrical and Instrumentation demolition and modifications to existing systems	Division 26	L.S.	1		
5.16	DCS Migration for Facility Area G	Division 40	L.S.	1		
5.17	Supply and Install Systems Integration Work	E9	L.S.	1		
5.18	Supply Commissioning services	01 91 14	L.S.	1		
5.19	Supply training services	01 79 00	L.S.	1		
5.20	Supply operations and maintenance manuals	01 78 23	L.S.	1		
FACILITY AREA G – HEADWORKS					Subtotal	
6.0	<u>FACILITY AREA K – HIGH RATE CLARIFICATION BUILDING</u>					

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
6.1	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
6.2	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
6.3	Installation of City Supplied Process Mechanical and Instrumentation Equipment	01 64 00, 46 01 01	L.S.	1		
6.4	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
6.5	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
6.6	Supply and Install Building Finishes	Divisions 9 to 12	L.S.	1		
6.7	Supply and Install Systems Integration Work	E9	L.S.	1		
6.8	Supply Commissioning services	01 91 14	L.S.	1		
6.9	Supply training services	01 79 00	L.S.	1		
6.10	Supply operations and maintenance manuals	01 78 23	L.S.	1		
FACILITY AREA K – HIGH RATE CLARIFICATION BUILDING					Subtotal	
7.0	<u>FACILITY AREA M – ADMINISTRATION BUILDING</u>					
7.1	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
7.2	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
7.3	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
7.4	Supply and Install Building Finishes	Divisions 9 to 12	L.S.	1		
7.5	Asbestos Abatement	Division 2	L.S.	1		
7.6	Electrical and Instrumentation demolition and modifications to existing systems	Division 26	L.S.	1		
7.7	DCS Migration for Facility Area M	Division 40	L.S.	1		
7.8	Supply and Install Systems Integration Work	E9	L.S.	1		
7.9	Supply Commissioning services	01 91 14	L.S.	1		
7.10	Supply training services	01 79 00	L.S.	1		
7.11	Supply operations and maintenance manuals	01 78 23	L.S.	1		
FACILITY AREA M – ADMINISTRATION BUILDING					Subtotal	
8.0	<u>FACILITY AREA P – PRIMARY CLARIFIERS</u>					

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
8.1	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
8.2	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
8.3	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
8.4	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
8.5	Asbestos Abatement	Division 2	L.S.	1		
8.6	Electrical and Instrumentation demolition and modifications to existing systems	Division 26	L.S.	1		
8.7	DCS Migration for Facility Area P	Division 40	L.S.	1		
8.8	Supply and Install Systems Integration Work	E9	L.S.	1		
8.9	Supply Commissioning services	01 91 14	L.S.	1		
8.10	Supply training services	01 79 00	L.S.	1		
8.11	Supply operations and maintenance manuals	01 78 23	L.S.	1		
FACILITY AREA P – PRIMARY CLARIFIERS					Subtotal	
9.0	<u>FACILITY AREA R - BIOREACTORS and BLOWER BUILDING</u>					
9.1	Supply and Install 300mm dia. pre-cast concrete piles	31 09 17, 31 62 13.23	Each	15		
9.2	Dynamic Pile Testing (PDA)	31 09 17	Each	1		
9.3	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
9.4	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
9.5	Installation of City Supplied Process Mechanical and Instrumentation Equipment	01 64 00, 46 01 01	L.S.	1		
9.6	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
9.7	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
9.8	Supply and Install Building Finishes	Divisions 9 to 12	L.S.	1		
9.9	Supply and Install Systems Integration Work	E9	L.S.	1		
9.10	Supply Commissioning services	01 91 14	L.S.	1		
9.11	Supply training services	01 79 00	L.S.	1		
9.12	Supply operations and maintenance manuals	01 78 23	L.S.	1		

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
FACILITY AREA R - BIOREACTORS AND BLOWER BUILDING					Subtotal	
10.0	<u>FACILITY AREA S - SECONDARY CLARIFIERS</u>					
10.1	Supply and Install 300mm dia. pre-cast concrete piles	31 09 17, 31 62 13.23	Each	24		
10.2	Dynamic Pile Testing (PDA)	31 09 17	Each	1		
10.3	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
10.4	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
10.5	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
10.6	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
10.7	Supply and Install Building Finishes	Divisions 9 to 12	L.S.	1		
10.8	Asbestos Abatement	Division 2	L.S.	1		
10.9	Electrical and Instrumentation demolition and modifications to existing systems	Division 26	L.S.	1		
10.10	DCS Migration for Facility Area S	Division 40	L.S.	1		
10.11	Supply and Install Systems Integration Work	E9	L.S.	1		
10.12	Supply Commissioning services	01 91 14	L.S.	1		
10.13	Supply training services	01 79 00	L.S.	1		
10.14	Supply operations and maintenance manuals	01 78 23	L.S.	1		
10.15	Supply and install 25mm Deep Vertical Concrete Repair for Secondary Clarifiers 1 & 2	03 01 32	m ²	600		
FACILITY AREA S - SECONDARY CLARIFIERS					Subtotal	
11.0	<u>FACILITY AREA T – BIOFILTER / ODOUR CONTROL</u>					
11.1	Supply and Install concrete	Division 3	L.S.	1		
11.2	Supply and Install odour dispersion stack	23 51 02	L.S.	1		
11.3	Building modifications and demolition	Division 2	L.S.	1		
11.4	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
11.5	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
11.6	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
11.7	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
11.8	Asbestos Abatement	Division 2	L.S.	1		
11.9	Electrical and Instrumentation demolition and modifications to existing systems	Division 26	L.S.	1		
11.10	Supply and Install Systems Integration Work	E9	L.S.	1		
11.11	Supply Commissioning services	01 91 14	L.S.	1		
11.12	Supply training services	01 79 00	L.S.	1		
11.13	Supply operations and maintenance manuals	01 78 23	L.S.	1		
FACILITY AREA T – BIOFILTER / ODOUR CONTROL					Subtotal	
12.0	<u>FACILITY AREA U – UV DISINFECTION BUILDING</u>					
12.1	Supply and Install concrete	Division 3	L.S.	1		
12.2	Building modifications and demolition	Division 2	L.S.	1		
12.3	Supply and Install Process Mechanical Equipment	Divisions 35, 40 to 46	L.S.	1		
12.4	Supply and Install Building Mechanical Equipment	Divisions 22 to 23	L.S.	1		
12.5	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
12.6	Install Standardized Electrical, Instrumentation and Control Systems	E5, E6, E7, E8	L.S.	1		
12.7	Asbestos Abatement	Division 2	L.S.	1		
12.8	Electrical and Instrumentation demolition and modifications to existing systems	Division 26	L.S.	1		
12.9	Supply and Install Systems Integration Work	E9	L.S.	1		
12.10	Supply Commissioning services	01 91 14	L.S.	1		
12.11	Supply training services	01 79 00	L.S.	1		
12.12	Supply operations and maintenance manuals	01 78 23	L.S.	1		
FACILITY AREA U – UV DISINFECTION BUILDING					Subtotal	
13.0	<u>FACILITY AREA Y – YARD / ELECTRICAL SUBSTATION</u>					
13.1	Supply and Install Substation	Division 26	L.S.	1		
13.2	Supply and Install Electrical Duct Banks	Divisions 3, 26	L.S.	1		
13.3	Supply and Install 300mm dia. pre-cast concrete piles for load bank	31 09 17, 31 62 13.23	Each	4		

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
13.4	Supply and Install Non Standardized Electrical, Instrumentation and Control Systems	Divisions 26, 28, 40	L.S.	1		
13.5	Electrical and Instrumentation demolition and modifications to existing systems	Division 26	L.S.	1		
13.6	Supply and Install Systems Integration Work	E9	L.S.	1		
13.7	Yard lighting complete with power supply and controls	Division 26	L.S.	1		
13.8	Supply and Install parking lot electrical	Division 26	L.S.	1		
13.9	Supply and Install Chamber #7 - Concrete Structure	E11	L.S.	1		
13.10	Supply and Install 150mm Watermains / Service	CW 2110	m	80		
13.11	Supply and Install Watermains / Service Insulation	CW 2110	m	20		
13.12	Supply and Install Hydrant Assembly	CW 2110	Each	1		
13.13	Supply and Install 150mm Watermain Valve	CW 2110	Each	1		
13.14	Supply and Install 150mm x 150mm Watermain Tee	CW 2110	Each	1		
13.15	Supply and Install 250mm x 250mm Watermain Tee	CW 2110	Each	1		
Earth and Base Works						
13.16	Excavation	CW 3110-R19	m ³	2800		
13.17	Sub-Grade Compaction	CW 3110-R19	m ²	15400		
13.18	Supply and Install Fill Material – Suitable Site Material	CW 3170-R3, CW 3110-R19	m ³	25000		
13.19	Supply and Install Fill Material – 50mm Crushed Sub-base	CW 3110-R19	tonne	16400		
13.20	Supply and Install Base Course Material	CW 3110-R19	m ³	4650		
13.21	Ditch Excavation	CW 3110-R19	m ³	5000		
13.22	Supply and Install Separation Geotextile Fabric	CW 3130-R4	m ²	15400		
Roadwork – Removal / Renewals						
13.23	Removal and Disposal of Existing Railway Tie Wheel Stops in Temporary Construction Parking Lots	E18	each	180		
13.24	Concrete Pavement Removal	CW 3110-R19	m ²	800		
13.25	Supply and Install 200 mm Concrete Pavement Patch (Type A)	CW 3230-R8	m ²	10		
13.26	Supply and Install 200 mm Concrete Pavement Patch (Type B)	CW 3230-R8	m ²	20		

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
13.27	Supply and Install 200 mm Concrete Pavement Patch (Type C)	CW 3230-R8	m ²	20		
13.28	Supply and Install 200 mm Concrete Pavement Patch (Type D)	CW 3230-R8	m ²	100		
13.29	Supply and Install 19.1mm Drilled Dowels	CW 3230-R8	Each	1000		
13.30	Supply and Install 20 M Deformed Drilled Tie Bars	CW 3230-R8	Each	1000		
	Concrete Sidewalk and Curb Renewal					
13.31	Supply and Install 100mm Sidewalk – less than 5 sq.m.	CW 3235-R9, CW 3240-R10 SD-228A	m ²	10		
13.32	Supply and Install 100mm Sidewalk – 5 sq.m. to 20 sq.m.	SD-228A	m ²	20		
13.33	Supply and Install 100mm Sidewalk – greater than 20 sq.m.	SD-228A	m ²	65		
13.34	Supply and Install Curb Barrier (180 mm reveal ht, Dowelled) – less than 3 metres	SD-205, SD-206A	m	10		
13.35	Supply and Install Curb Barrier (180 mm reveal ht, Dowelled) – 3 metres to 30 metres	SD-205, SD-206A	m	30		
13.36	Supply and Install Curb Barrier (180 mm reveal ht, Dowelled) – greater than 30 metres	SD-205, SD-206A	m	100		
13.37	Supply and Install Curb Ramp (8-12 mm reveal ht, Integral)	SD-229C,D	m	5		
	Construction of Asphaltic Concrete Pavements and Overlays					
13.38	Supply and Install Main Line Paving – Type 1A	CW 3410-R11	tonne	2100		
13.39	Supply and Install Tie-ins and Approaches – Type II		tonne	100		
13.40	Supply and Install Overlay Main Line Paving – Type 1A		tonne	80		
13.41	Overlay Tie-ins and Approaches – Type II		tonne	20		
	Roadwork – New Construction					
13.42	Supply and Install 200mm Reinforced Concrete Pavements, Median Slabs, Bull-noses, and Safety Medians	CW 3310-R17	m ²	8000		
13.43	Supply and Install Precast Concrete Wheel Stops	E19	each	36		
13.44	Joint and Crack Sealing	CW 3250-R7	m	5,000		
	Landscaping					
13.45	Supply and Install sod over granular surfaced areas	E21	m ²	38000		
13.46	Supply and Install sod over non-granular surfaced areas	E21	m ²	47650		

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
	Associated Drainage and Underground Works					
13.47	Supply and Install Catch Basin SD-025	CW 2130	each	2		
13.48	Supply and Install Catch basin on 300mm dia Concrete Culvert	CW 2130-R12, E20	each	2		
13.49	Supply and Install 250mm Diameter Drainage Connection Pipe	CW 2130-R12	m	20		
13.50	Connecting to 200mm Concrete Sewer	CW 2130-R12	each	2		
13.51	Supply and Install 300 mm dia. Type IV Conc Pipe Culvert	CW 3610-R4	m	65		
13.52	Supply and Install CSP (300 mm dia, 2mm thick, Galvanized)	CW 3610-R4	m	150		
13.53	Supply and Install CSP (450 mm dia, 2mm thick, Galvanized)	CW 3610-R4	m	150		
	Miscellaneous Site Works					
13.54	Disconnect and abandon site trailer water and electrical service connection		L.S.	1		
13.55	Removal and Disposal of Existing Culverts	CW 3610-R5	m	200		
13.56	Supply and Install Parking Lot Hitching Rail Fence and Stall Number Tags	E28	L.S.	1		
13.57	Supply and Install 3.65m High Perimeter Chain Link Fence	CW 3550-R3, E23	m	835		
13.58	Supply and Install 3.65m High Non-Conductive Concrete Wall Perimeter Security Fence	CW 3550-R3, E24	m	62		
13.59	Removal of Temporary Chain Link Fence	CW 3550-R3, E27	m	1200		
13.60	Supply and Install 3.65m High Chain Link Fence Swinging Security Gate	CW 3550-R3, E26	each	1		
13.61	Supply and Install 3.65m High Powered Chain Link Fence Sliding Security Gates	CW 3550-R3, E25	each	3		
13.62	Bollards	E29	each	55		
13.63	Grouted Riprap around CB Inlets	CW 3615	m ³	25		
13.64	DELETED	N/A	N/A	N/A		
13.65	Hydro Excavation	E22	hrs	100		
13.66	Hauling Unsuitable Site Material to Off-site Landfill		m ³	1000		
13.67	Supply Commissioning services	01 91 14	L.S.	1		
13.68	Supply training services	01 79 00	L.S.	1		
13.69	Supply operations and maintenance manuals	01 78 23	L.S.	1		

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
13.70	Connecting to Existing Watermains and Large Diameter Water Services – Perpendicular Connection (250mm watermain)	CW2110	each	1		
13.71	Planing of Pavement, 1 – 50mm depth, asphalt surface	CW-3450-R6	m ²	300		
13.72	Remove and Dispose of existing catchbasin within footprint of Grit and Screenings building, and plug & abandon lead and connection to existing manhole	CW2130-R12	L.S.	1		
FACILITY AREA Y – YARD / ELECTRICAL SUBSTATION					Subtotal	
14.0	<u>PCS DEMONSTRATION SYSTEM</u>					
14.1	Supply and Install simulation system including programming, testing, and commissioning	E10	L.S.	1		
PCS DEMONSTRATION SYSTEM					Subtotal	
15.0	<u>MISCELLANEOUS</u>					
15.1	Mobilization and Demobilization	01 50 00, E30	L.S.	1		
15.2	Insurance	D15	L.S.	1		
15.3	Bonding	D16	L.S.	1		
MISCELLANEOUS					Subtotal	
16.0	<u>STANDARDIZED GOODS</u> Indicate base costs for material supply under the following standardization agreements. Any material mark-up or installation costs, as applicable, shall be included in other line items above.					
16.1	Standardized Control System – Base Cost	E5	L.S.	1		
16.2	Standardized Motor Control Equipment – Base Cost	E5	L.S.	1		
16.3	Standardized Electric Valve Actuators – Base Cost	E6	L.S.	1		
16.4	Standardized Gas Detection Equipment – Base Cost	E7	L.S.	1		
16.5	Standardized Instrumentation – Base Cost	E8	L.S.	1		
STANDARDIZED GOODS					Subtotal	
17.0	<u>EXTRA WORK ALLOWANCE</u>		E31			\$5,000,000.00
18.0	<u>APPLICABLE MRST (PST)</u>					
18.1	Applicable MRST (PST) for All Mechanical and Electrical Work	B11	L.S.	1		
APPLICABLE MRST (PST)					Subtotal	

ITEM NO.	DESCRIPTION	SPEC. REF.	UNIT	APPROX. QUANTITY	UNIT PRICE	AMOUNT
TOTAL BID PRICE MRST INCLUDED (GST extra) (in figures) \$						

Name of Bidder

FORM G1: BID BOND AND AGREEMENT TO BOND

(Page 1 of 2)
(See B14)

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 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 for

BID OPPORTUNITY NO. 976-2016 Addendum 3

SOUTH END SEWAGE TREATMENT PLANT (SEWPCC) UPGRADING / EXPANSION PROJECT -
CONTRACT 4 – SITEWIDE MECHANICAL, ELECTRICAL, CONCRETE AND SITE WORKS

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 as to Principal if no seal)

(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 B14)

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. 976-2016 Addendum 3

**SOUTH END SEWAGE TREATMENT PLANT (SEWPCC) UPGRADING / EXPANSION PROJECT -
CONTRACT 4 – SITEWIDE MECHANICAL, ELECTRICAL, CONCRETE AND SITE WORKS**

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 one hundred and twenty (120) 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 B14)**

(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. 976-2016 Addendum 3

SOUTH END SEWAGE TREATMENT PLANT (SEWPCC) UPGRADING / EXPANSION PROJECT
- CONTRACT 4 – SITEWIDE MECHANICAL, ELECTRICAL, CONCRETE AND SITE WORKS

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 B14)**

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 November 10, 2017

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 (2007 Revision), International Chamber of Commerce Publication Number 600.

(Name of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)